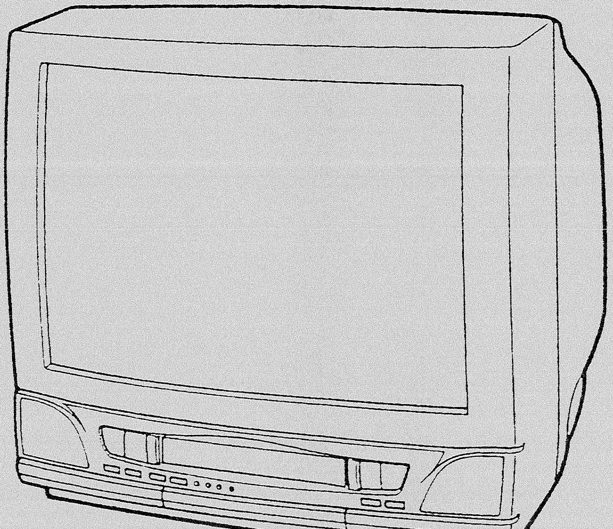
JVC

SERVICE MANUAL

COLOR TELEVISION

TV-C2026(US&CA)
TV-C2126(LA)

BASIC CHASSIS
GLII



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May 1995

OPERATING INSTRUCTIONS

TV-C2026

JVC

TV/ VCR COMBO

INSTRUCTIONS

Thank you for purchasing this JVC color television.
To ensure your complete understanding, please read this manual thoroughly before operation.

SAFETY INSTRUCTIONS on pages 2 and 3
* SERVICE INFORMATION on page 29 (U.S.A. only)
* LIMITED WARRANTY on page 30 (U.S.A. only)

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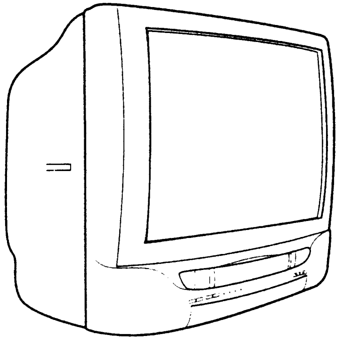
VCR plus+

VHS



For Customer Use:
Enter below the Serial No. which is located on the rear of the cabinet. Retain this information for future reference.

Model No. TV-C2026

Serial No.

* FOR PRODUCTS PURCHASED IN CANADA, SEE SEPARATE SHEETS FOR WARRANTY/GUARANTEE AND JVC AUTHORIZED SERVICE CENTERS IN CANADA.

SPECIFICATIONS

Item	Content	
Dimensions (W×H×D)	21-1/8" × 20-1/4" × 19-3/8" / 53.6cm × 51.2cm × 48.9cm	
Weight	55.2lbs / 25.1kg	
TV System and Color system		
TV RF System	CCIR (M)	
Color System	NTSC	
TV Receiving Channels and Frequency		
VL Band	(02 ~ 06) 54MHz ~ 88MHz	
VH Band	(07 ~ 13) 174MHz ~ 216MHz	
UHF Band	(14 ~ 69) 470MHz ~ 806MHz	
CATV Receiving Channels and Frequency		
(Quartz Synthesizer system)		
Low Band	(02 ~ 06,A-8) by (02 ~ 06&01)	
High Band	(07 ~ 13) by (07 ~ 13)	(54MHz~804MHz)
Mid Band	(A ~ I) by (14 ~ 22)	
Super Band	(J ~ W) by (23 ~ 36)	
Hyper Band	(W + 1 ~ W + 28) by (37 ~ 64)	
ULTRA Band	(W + 29 ~ W + 84) by (65 ~ 125)	
Sub Mid Band	(A8,A7 ~ A1) by (01,93 ~ 99)	
TV/CATV Total Channel	180 Channels	
Intermediate Frequency		
Video IF Carrier	45.75MHz	
Sound IF Carrier	41.25MHz (4.5MHz)	
Color Sub Carrier	3.58MHz	
Antenna Input Impedance	75Ω (VHF/UHF) Terminal,F-Type Connector	
Power Input	120V AC,60Hz	
Power Consumption	104W(US)	
Input Current	1.6A(CA)	
Picture Tube	20"(51cm) measured diagonally	
Viewable Picture Size (W×H)	16" × 12" / 40.7cm × 30.5cm	
High Voltage	28.0kV ± 1kV (at zero beam current)	
Speaker	2" × 3-9/16"(5cm × 9cm) oval × 1	
Audio Power Output	1.5W	
Video Input	1Vp-p, 75Ω	
Audio Input	500mVrms(-4dBs), high impedance	
Tube	1	
IC	15 (In TV), 1 (In REMOCON)	
Transistor	28 (In TV), 1 (In REMOCON)	
Remote Control Unit	RM-C143	
VIDO DECK		
(VIDEO)		
REC/PLAY SYSTEM	VHS Rotary 2 head,helical scan Y:FM C:Lowband Modulated Recording	
(AUDIO)		
REC SYSTEM	Monaural linear track	

Design & specification subject to change without notice.

SAFETY PRECAUTIONS

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION. TO REDUCE THE RISK OF ELECTRIC SHOCK
DO NOT REMOVE COVER (OR BACK)
NO USER SERVICEABLE PARTS INSIDE
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL

The lightning flash with arrowhead symbol, within an equilateral triangle is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

CAUTION:
To prevent electric shock do not use this (polarized) plug with an extension cord, receptacle or other outlet unless the blades can be fully inserted to prevent blade exposure.

WARNING:
TO PREVENT FIRE OR SHOCK HAZARDS, DO NOT EXPOSE THIS TV SET TO RAIN OR MOISTURE.

Caution:
Changes or modifications not approved by JVC could void the warranty.

CAUTION: TO INSURE PERSONAL SAFETY, OBSERVE THE FOLLOWING RULES REGARDING THE USE OF THIS UNIT.

1. Operate only from the power source specified on the unit.
2. Avoid damaging the AC plug and power cord.
3. Avoid improper installation and never position the unit where good ventilation is unattainable.
4. Do not allow objects or liquid into the cabinet openings.
5. In the event of trouble, unplug the unit and call a service technician. Do not attempt to repair it yourself or remove the rear cover.

Caution:
When you don't use this TV set for a long period of time, be sure to disconnect both the power plug from the AC outlet and antenna for your safety.

IMPORTANT SAFEGUARDS

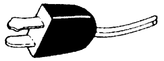
CAUTION: Please read and retain for your safety.

This TV set has been engineered and manufactured to assure your personal safety. But *improper use can result in potential electrical shock or fire hazards*. In order not to defeat the safeguards incorporated in this TV set, observe the following basic rules for its installation, use, and servicing, and follow all warnings and instructions marked on the set.

INSTALLATION

1 Your TV set is equipped with a polarized AC line plug (one blade of the plug is wider than the other).

(POLARIZED-TYPE)



This safety feature allows the plug to fit into the power outlet only one way. Should you be unable to insert the plug fully into the outlet, try reversing the plug.
Should it still fail to fit, contact your electrician.

2 Operate the TV set only from a power source as indicated on the TV set or refer to the operating instructions for this information. If you are not sure of the type of power supply to your home, consult your TV set dealer or local power company. For battery operation, refer to the operating instructions.

3 Overloaded AC outlets and extension cords are dangerous, and so are frayed power cords and broken plugs. They may result in a shock or fire hazard. Call your service technician for replacement.

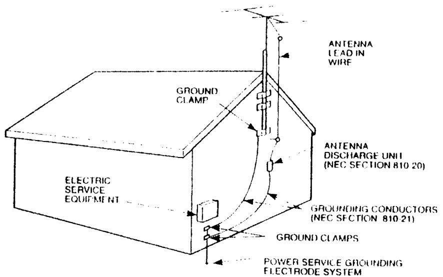
4 Do not allow anything to rest on or roll over the power cord, and do not place the TV set where power cord is subject to traffic or abuse. This may result in a shock or fire hazard.

5 Do not use this TV set near water — for example, near a bathtub, washbowl, kitchen sink, or laundry tub, in a wet basement, or near swimming pool, etc.

6 If an outside antenna is connected to the TV set, be sure the antenna system is grounded so as to provide some protection against voltage surges and built up static charges. Section 810 of the National Electrical Code provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit and connection requirements for the grounding electrode.

7 An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.

EXAMPLE OF ANTENNA GROUNDING AS PER NATIONAL ELECTRICAL CODE


ANTENNA LEAD IN WIRE
GROUND CLAMP
ANTENNA DISCHARGE UNIT (NEC SECTION 810-20)
ELECTRIC SERVICE EQUIPMENT
GROUNDING CONDUCTORS (NEC SECTION 810-21)
GROUND CLAMPS
POWER SERVICE GROUNDING ELECTRODE SYSTEM (NEC ART 250, PART H)

NEC - NATIONAL ELECTRICAL CODE

8 TV sets are provided with ventilation openings in the cabinet to allow heat generated during operation to be released. Therefore:

- Never block the bottom ventilation slots of a portable TV set by placing it on a bed, sofa, rug, etc.
- Never place a TV set in a "built-in" enclosure unless proper ventilation is provided.
- Never cover the openings with a cloth or other material.
- Never place the TV set near or over a radiator or heat register.

9 To avoid personal injury:

- Do not place a TV set on a sloping shelf unless properly secured.
- Use only a cart or stand recommended by the TV set manufacturer.
- Do not try to roll a cart with small casters across thresholds or deep pile carpets.
- Wall or shelf mounting should follow the manufacturer's instructions, and should use a mounting kit approved by the manufacturer.

USE

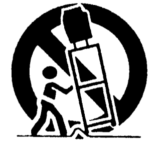
10 Caution children about dropping or pushing objects into the TV set through cabinet openings. Some internal parts carry hazardous voltages and contact can result in a fire or electrical shock.

11 Unplug the TV set from the wall outlet before cleaning. Use a slightly damp (not wet) cloth. Do not use liquid or an aerosol cleaner.

12 Never connect an accessory to your TV that has not been specifically designed for the purpose for which you intend to use it. Improper connections can cause fire hazards.

13 For added protection of the TV set during a lightning storm or when the TV set is to be left unattended for an extended period of time, unplug it from the wall outlet and disconnect the antenna. This will prevent damage to product due to lightning storms or power line surges.

14 A TV set and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the TV set and cart combination to overturn.



SERVICE

15 Unplug this TV set from the wall outlet and refer servicing to qualified service personnel under the following conditions:
A. When the power cord or plug is damaged or frayed.
B. If liquid has been spilled into the TV set.
C. If the TV set has been exposed to rain or water.
D. If the TV set does not operate normally by following the operating instructions. Adjust only those controls that are covered in the operating instructions as improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the TV set to normal operation.
E. If the TV set has been dropped or damaged in any way.
F. When the TV set exhibits a distinct change in performance — this indicates a need for service.

16 Do not attempt to service this TV set yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

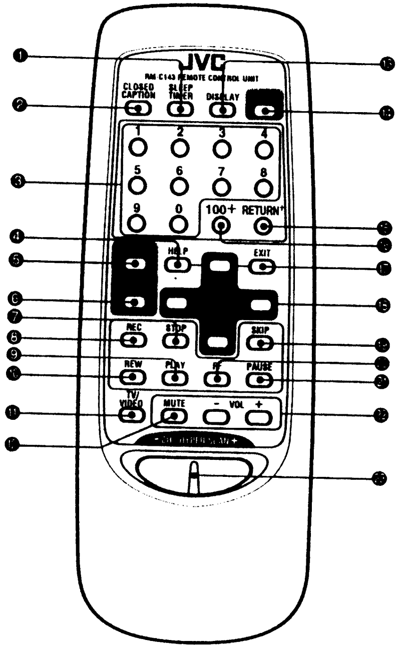
17 When replacement parts are required, have the service technician verify in writing that the replacement parts he uses have the same safety characteristics as the original parts. Use of manufacturer's specified replacement parts can prevent fire, shock, or other hazards.

18 Upon completion of any service or repairs to this TV set, please ask the service technician to perform the safety check described in the manufacturer's service literature.

19 When a TV set reaches the end of its useful life, improper disposal could result in a picture tube implosion. Ask a qualified service technician to dispose of the TV set.

20 Note to CATV system installer.
This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

Locations of Remote Control Buttons

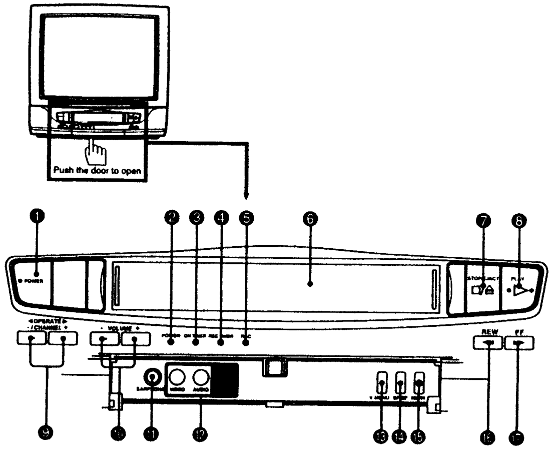

JVC
RM-C143 REMOTE CONTROL UNIT
CLOSED CAPTION
SLEEP TIMER
DISPLAY
1
2
3
4
5
6
7
8
9
0
100+
RETURN+
HELP
EXIT
REC
STOP
SKIP
REW
PLAY
FF
PAUSE
TV/VIDEO
MUTE
- VOL +

①	SLEEP TIMER button	p.23
②	CLOSED CAPTION button	p.19
③	Number keys	p.9
④	HELP button	p.16
⑤	VCR PLUS+ button	p.13
⑥	TIMER button	p.13, 14
⑦	STOP button	p.11
⑧	REC button	p.12
⑨	PLAY button	p.11
⑩	REW button	p.11, 24
⑪	TV/VIDEO button	p.9
⑫	MUTE button	p.18
⑬	DISPLAY button	p.19
⑭	POWER button	p.7
⑮	RETURN+ button	p.20
⑯	100+ button	p.9
⑰	EXIT button	p.16
⑱	MENU (▲▼◄ ►) buttons	p.16
⑲	SKIP button	p.24
⑳	FF button	p.11, 24
㉑	PAUSE button	p.24
㉒	VOL (–/+) buttons	p.9
㉓	CH/HYPER SCAN (–/+) buttons	p.9

- For the locations of TV buttons and parts, please refer to page 5.

Locations of TV Buttons and Parts

FRONT PANEL


Push the door to open
① ② ③ ④ ⑤ ⑥ ⑦ ⑧
POWER
OPERATE / CHANNEL
VOLUME
STOP/EJECT
PLAY
REW
FF
⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰

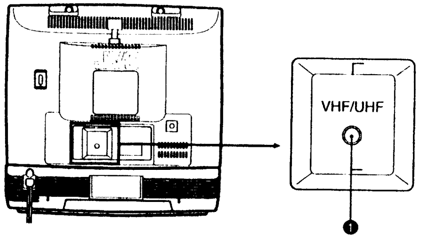
How to use the MENU (▼) button:

- Press this button to display a list of functions. While the list is being displayed, press the button again to select the desired function; then change the level or setting with OPERATE(◄►)/ CHANNEL (–/+).
- Other buttons may be used by referring to the respective page of this user guide for their description.
- On the front panel the MENU▲ button and the EXIT button are not provided. To select the functions on the menu, use the MENU▼ button. To release the TV from the MENU mode, use the VOLUME button.
- During MENU operation from the front panel, you cannot set SET LOCK CODE, CHILD TIMER and the channel guard.
- When you push the MENU button on the front panel, the FRONT PANEL CONTROL menu will be displayed before the last page of the menus. The other menus are the same as those displayed by operating the remote control.(Refer to page 16.)

①	POWER button	p.7
②	POWER lamp	p.7
③	ON TIMER lamp	p.23
④	REC TIMER lamp	p.13, 14
⑤	REC lamp	p.12
⑥	Videocassette compartment	p.10
⑦	STOP/EJECT button	p.10, 11
⑧	PLAY button	p.11
⑨	OPERATE (◄ ►)/CHANNEL (–/+) buttons	p.5, 9

⑩	VOLUME (–/+) buttons	p.9
⑪	EARPHONE jack	p.25
⑫	INPUT jacks	p.25
⑬	▼ MENU button	p.5
⑭	SP/EP button	p.12
⑮	REC/ITR button	p.12
⑯	REW button	p.11, 24
⑰	FF button	p.11, 24

REAR PANEL



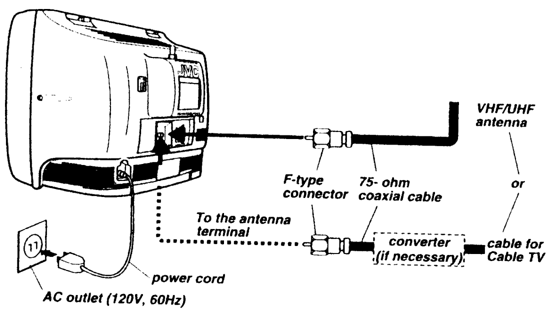
①	Antenna terminal	p.6

PREPARATION

1. Connecting antenna and power cord

Condition:

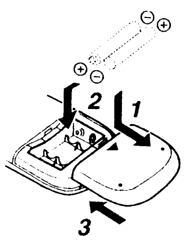
- Before connecting external devices, be sure to disconnect the TV from the AC outlet.



Notes:

- When connecting both a cable (75-ohm coaxial) and a UHF antenna (300-ohm feeder), use an optional antenna mixer (CE41467) to make a single connection. With this antenna mixer, reception of cable channels higher than "Channel W+17" is not possible.
- The power cord is supplied with a polarized plug. Therefore, it will only insert one way into the wall outlet. DO NOT DEFEAT THE POLARIZED PLUG. If you have difficulty, consult your local dealer.
- Some cable companies require a converter box to receive all available programs. Others may require it for subscription or "premium" programming. Consult your local cable company for correct installation.

2. Inserting batteries into your remote control



1. Press down and slide off the cover.
2. Insert 2 batteries into the battery compartment.
3. Replace the cover.

Condition:
Use two AAA/R03 dry cell batteries.

Caution:
Follow the cautions printed on the batteries.

Notes:

- Battery life is approximately 6 months to 1 year depending on the frequency of use.
- If the remote control operates erratically, replace the batteries.
- Insert batteries correctly observing + and – polarities.

3. Turning the power ON/OFF

1. Press POWER.

The POWER lamp lights up.

To turn off the TV, press POWER once again.
The POWER lamp goes off.

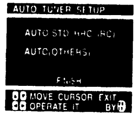
4. Presetting the channels

— AUTO TUNER SETUP

You can preset active channels. The preset channels can be selected with CH/HYPER SCAN (–/+).

1. Press MENU ▼ or ▲ repeatedly to select AUTO TUNER SETUP, then press ◄ or ► to enter the setting menu.

The AUTO TUNER SET UP menu is displayed.



2. Press MENU ▼ or ▲ to move the cursor to AUTO (STD, HRC, IRC) or AUTO (OTHERS), then press ◄ or ► to select it.

The setting starts automatically.

PROGRAMMING OVER is displayed and the setting is complete. "DO YOU WANT TO RESET VCR PLUS+ GUIDE CHANNEL?" appears on the screen.

YES: The system resets the guide channel for VCR PLUS+ and displays the screen setting SET VCR+ GUIDE CHANNEL. (Refer to page 8.)

NO : The display goes off and setting mode is terminated.

AUTO (STD, HRC, IRC):
Almost all the cable companies use one of the following systems:

- Standard
- Harmonically Related Carrier
- Incrementally Related Carrier

AUTO (OTHERS):
For other than the above.

Notes:

- If you experience a problem, call your cable company. If they use a different system (not STD, HRC, IRC), repeat Step 1 and in Step 2 select AUTO (OTHERS).
- For details on the menu functions, refer to page 16.
- If you press CH/HYPER SCAN (–/+), you can confirm the set channels.
- To add a channel to those set with the AUTO TUNER SETUP or to delete one of those channels, refer to "To set a channel for scanning" on page 20.

5. Setting the VCR PLUS+ feature

With this TV you can set the time and channel for your VCR to record, by using VCR PLUS+ programming.
To correctly set programs to be recorded with VCR PLUS+, the guide channels for VCR PLUS+ must be set.

VCR PLUS+ GUIDE CHANNEL:
Most TV listings will have a chart indicating the "Guide Channel" number that each TV station has been assigned for purposes of VCR PLUS+ programming.

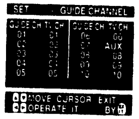
1. Check your TV listing for the guide channels of available broadcasting stations.

Check the guide channels for the stations in your area and write them in the table provided below.

Note:
If the channel number of an available TV station is identical to the guide channel number, this setting is not necessary.

2. Press the MENU buttons to select the SET VCRPLUS+ GUIDE CHANNEL

The SET VCRPLUS+ GUIDE CHANNEL menu will be displayed.



SET · GUIDE CHANNEL

GUIDE CH	TV CH	GUIDE CH	TV CH
01	01	06	06
02	02	07	AUX
03	03	08	08
04	04	09	09
05	05	10	10

▲▼ MOVE CURSOR EXIT
◀▶ OPERATE IT BY

3. Press the MENU buttons to specify the channel number of the desired station.

- Setting is completed.
  To exit the MENU screen, press the EXIT button.

Note:
Use VCR PLUS+ programming to set all channels you may use for timer recording.

Check your TV listing and write the channel numbers of the broadcasting stations available in your area, as well as the guide-channel numbers, into the table provided.

Broadcast Station	VCR PLUS+ Assigned Guide Channel	Channel Number of Available Station	Broadcast Station	VCR PLUS+ Assigned Guide Channel	Channel Number of Available Station

WATCHING A TV PROGRAM

1. Press POWER.

The POWER lamp lights up.

2. If video mode has been selected, press TV/VIDEO repeatedly to switch it to TV mode.

TV mode ⇄ VIDEO mode (AUX)

TV mode:
To view TV broadcast or CABLE TV.

VIDEO mode:
To view the video being input to the INPUT jacks.

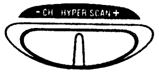
3. If necessary, press ▼ or ▲ repeatedly to select the TUNER MODE, then press ◀ or ▶ to select the AIR or CABLE.

AIR ⇄ CABLE

Channel display:
For Air, the channel number is displayed in light blue.
For CABLE, the channel number is displayed in yellow.

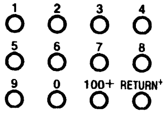
4. Select a channel.

Scan selection



1. Press CH/HYPER SCAN (–/+).
   + : To scan UP a channel number
   – : To scan DOWN a channel number

Direct selection



1. Press a number key.
   Example: To select channel 5 (single-digit channel), press 0 and 5.
   Example: To select channel 35 (two-digit channel), press 3 and 5.
   Example: To select channel 115 (three-digit channel), press 100+,1 and 5.

CH/HYPER SCAN (–/+) BUTTON:
Use the CH/HYPER SCAN (–/+) button to scan backward or forward to select a channel.

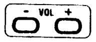
NORMAL SCAN UP/DOWN:
To scan and view the programs on each individual channel, press and release the CH/HYPER SCAN (–/+) button.

HYPER SCAN UP/DOWN:
To scan through the channel numbers quickly without viewing the actual programs on each channel, press and hold down the CH/HYPER SCAN (–/+) button. To view the programming on a particular channel, release the button.

Notes:
- Only preset channels can be selected with scan selection. (Refer to page 7.)
- Front panel buttons operate NORMAL SCAN ONLY.

5. Press VOL (–/+).

The level indicator appears.



+ : The bars move right and the volume increases.
– : The bars move left and the volume decreases.

Note:
This operation can also be done with VOLUME (–/+) on the front panel.

6. Press POWER to turn the power off.

The POWER lamp turns off.

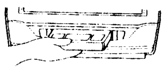
USING THE VCR

1. Loading/ejecting a videocassette

Use videocassettes with the VHS mark. Videotapes recorded with S-VHS cannot be played back with this unit. Also, S-VHS recording cannot be made with this unit.

Loading a videocassette

1. Insert the videocassette with the tape windows facing upward and the label panel facing you. Push on the center slowly.



Note:
If a videocassette is inserted incorrectly, such as being askew, the internal protective circuit is activated and the videocassette will be automatically ejected. In such a case, wait several seconds, then reinsert the videocassette correctly.

- If the power is not ON, the power will be automatically switched on.
- The counter will be reset.
- When a videocassette without the safety tab intact is loaded, the system automatically starts playback.

Ejecting a videocassette

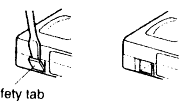
1. Stop the tape by pressing the STOP button, then press the STOP/EJECT button at the front of the unit.

Note:
Before ejecting a videocassette by pressing the STOP/EJECT button, wait several seconds after pressing the STOP button to stop the tape, then press the STOP/EJECT button.

If the system is in Ready mode to execute timer recording (the TIMER lamp is lit), pressing the TIMER button cancels timer recording.

■ To prevent unintended erasure

1. Snap out the safety tab.

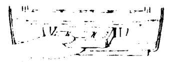


Note:
When recording on an area of a tape with video already recorded, the previous recording will be deleted. To prevent unintentional deletion, snap out the safety tab on the rear of the videocassette.

To record again on a videocassette from which the safety tab has been removed, apply cellophane tape to act as the safety tab.

2. Playing back a videocassette

1. Load a recorded videocassette and press the PLAY button.



The system automatically changes to Video mode and starts playback.

2. To stop playback, press the STOP button.

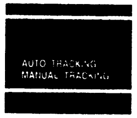
The system automatically returns to TV mode.

- ■ To rewind, press the REW button.
- ■ To fast-forward, press the FF button.
- ■ To eject a videocassette, press the STOP/EJECT button.

When the playback picture contains signal noise (Snow) — SET TRACKING

If videotapes are recorded under poor conditions or recorded with another videocassette recorder, the AUTO TRACKING function may not adequately adjust the picture quality, causing signal noise or snow.
In such a case, use MANUAL TRACKING for adjustment.
Normally, use AUTO TRACKING.

1. Press the MENU ▼ or ▲ button to select SET TRACKING, then press ◄ ► button to enter the setting menu.



AUTO TRACKING
MANUAL TRACKING

2. Press the MENU ▼ or ▲ button to move the cursor to MANUAL TRACKING, then press the ◄ ► button to select.

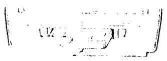
3. Press the MENU ◄ ► button to adjust tracking.

- ● To exit the MENU screen, press the EXIT button.

3. Recording a program during broadcast

(REAL-TIME VIDEO RECORDING)

1. **Load a videocassette with its safety tab intact.**



Note:
The following operations cannot be performed during recording or timer recording
- Switching channels
- Switching between TV and VIDEO
- AUTO TUNER SETUP
- Entering TUNER MODE

2. **Press the CH/HYPER SCAN (–/+) button to select the desired channel.**

3. **Press the SP/EP button at the front (inside the cover) of this unit to select the recording speed.**

When setting the recording speed to EP:
With 120-minute (2 hours) cassettes, recording can be made for 360 minutes (6 hours). You may use this function to extend the capacity of the tape, especially when you wish to record continuously for a longer period than the indicated tape capacity

4. **While holding down the REC button, press the PLAY button.**

To temporarily stop recording.
Press the PAUSE button. To resume recording, press the PLAY button. If the system is left in Pause mode for more than 5 minutes, recording will be cancelled.

■ When operating with the buttons on this unit:
Press the REC/ITR button inside the front cover.
The system starts recording, and the REC lamp lights up.

Note:
When the end of a videotape is reached during recording, the system cancels recording and automatically rewinds the tape.

Setting the recording hours according to the length of the program to be recorded

— REC/ITR

Using the REC/ITR button inside the front cover of this unit allows you to specify the recording hours.

1. **Following step 4 above, press the REC/ITR button to specify the recording hours.**

The recording hours can be set in units of 30 minutes each time the REC/ITR button is pressed.

0:30 ▸ 1:00 ▸ 1:30 ▸ 2:00 ▸ 2:30 ▸ 3:00 ▸ 3:30 ▸ 4.00 ▸ No display

Note:
When nothing is displayed, the system records to the end of the videotape.

4. Timer recording (1)

A maximum of six programs can be set to be recorded.

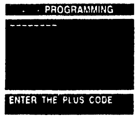
Using VCR PLUS+ for timer recording

— VCR PLUS+

Conditions:
- Before making this setting, the channel numbers of your local TV stations and guide channels must be set (Refer to pages 7 and 8).
- The built-in clock must be set (Refer to page 22).
- Load a videocassette with its safety tab intact.
- Check the VCR PLUS+ code number of the desired program in advance.

HELP:
You can display the operation procedures by pressing the HELP button during a setting operation.

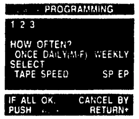
1. **Press the VCR PLUS+ button.**



```
PROGRAMMING
--------
ENTER THE PLUS CODE
```

The VCR PLUS+ PROGRAMMING screen will be displayed.

2. **Press the number keys to enter the VCR PLUS+ code number.**

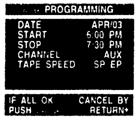


```
PROGRAMMING
1 2 3

HOW OFTEN?
 ONCE DAILY(M-F) WEEKLY
SELECT
 TAPE SPEED          SP EP
IF ALL OK.      CANCEL BY
PUSH              RETURN+
```

If you enter an incorrect code:
Press the RETURN+ button and enter the correct code

3. **Press the MENU buttons to specify the frequency (ONCE, DAILY (M-F) or WEEKLY) and the recording speed (TAPE SPEED), then press the VCR PLUS+ button.**



```
PROGRAMMING
 DATE           APR/03
 START         6:00 PM
 STOP          7:30 PM
 CHANNEL           AUX
 TAPE SPEED      SP EP
IF ALL OK       CANCEL BY
PUSH              RETURN+
```

The programs set to be recorded will be displayed.

To change the programs to be recorded:
Move the cursor using the ▼ or ▲ button, then use the ◄ ► button to change the setting.

4. **Press the VCR PLUS+ button to terminate.**

A message will be displayed for several seconds.
To set other programs to be recorded, repeat steps 1 through 5.

To cancel the programs to be recorded:
Press the RETURN+ button.

5. **To execute timer recording, press the TIMER button.**

The REC TIMER lamp lights up.

Note:
If the TV is in use when the time comes to record as per your timer settings, the system will automatically change the channel if necessary and execute recording according to your settings.

5. Timer recording (2)

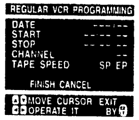
Timer recording without VCR PLUS+

— REGULAR VCR PROGRAMMING

Conditions:

- Before making this setting, the channel numbers of the TV stations in your area must be set (Refer to page 7).
- The built-in clock must be set (Refer to page 22).
- Load a videocassette with the safety tab intact.

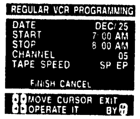
1. Press the MENU ▼ or ▲ button to select REGULAR VCR PROGRAMMING, then press the ◄ ► button.



```
REGULAR VCR PROGRAMMING
DATE             ---/--
START         --:-- --
STOP          --:-- --
CHANNEL              --
TAPE SPEED        SP EP
     FINISH CANCEL
```

The REGULAR VCR PROGRAMMING menu will be displayed.

2. Press the MENU buttons to make each setting.



```
REGULAR VCR PROGRAMMING
DATE             DEC/25
START           7 00 AM
STOP            8 00 AM
CHANNEL              05
TAPE SPEED        SP EP
     FINISH CANCEL
```

Press the HELP button to confirm the operation procedures.

3. To execute timer recording, press the TIMER button.

The REC TIMER lamp lights up.

HELP:
You can display an explanation of functions and the operation procedures by pressing the HELP button
- When a function name is displayed in yellow, the explanation of that function can be viewed
- During setting, operation procedures can be viewed

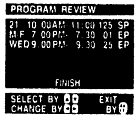
6. Confirming the settings for timer recording

The settings for timer recording can be confirmed and/or changed

To confirm the settings for timer recording

— PROGRAM REVIEW

1. Press the MENU ▼ or ▲ button to select PROGRAM REVIEW, then press the ◄ ► button.



```
PROGRAM REVIEW
21  10 00AM- 11:00 125 SP
M-F  7 00PM-  7.30  01 EP
WED 9.00PM-  9.30  25 EP
          FINISH
```

The PROGRAM REVIEW screen will be displayed.

2. To return to the MENU screen, move the cursor to FINISH and press the ◄ ► button.

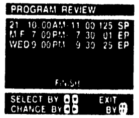
- To exit the MENU screen, press the EXIT button.

HELP:
You can display an explanation of functions and the operation procedures by pressing the HELP button
- When a function name is displayed in yellow, the explanation of that function can be viewed.
- During setting, operation procedures can be viewed

Note:
The PROGRAM REVIEW screen will not be displayed, if timer recording has not been set

To change the settings for timer recording

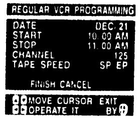
1. Press the MENU ▼ or ▲ button to select PROGRAM REVIEW, then press the ◄ ► button.



```
PROGRAM REVIEW
21  10.00AM- 11 00 125 SP
M F  7 00PM-  7 30  01 EP
WED 9 00PM   9 30  25 EP
          FINISH
```

The PROGRAM REVIEW screen will be displayed.

2. Press the ▼ or ▲ button to select the program you wish to change from among those set to be recorded. Press the ◄ ► button.



```
REGULAR VCR PROGRAMMING
DATE             DEC 21
START          10.00 AM
STOP           11.00 AM
CHANNEL             125
TAPE SPEED        SP EP
     FINISH CANCEL
```

The REGULAR VCR PROGRAMMING screen will be displayed.

Note:
Refer to page 14 for REGULAR VCR PROGRAMMING

3. Use the MENU button to change settings.

Press the HELP button to confirm the operation procedures.

When FINISH is selected from the REGULAR VCR PROGRAMMING screen, a message will be displayed for several seconds and setting will then be terminated.

HELP:
You can display an explanation of functions and the operation procedures by pressing the HELP button.
- When a function name is displayed in yellow, the explanation of that function can be viewed
- During setting, operation procedures can be viewed

4. To execute timer recording, press the TIMER button.

The REC TIMER lamp lights up.

MENU SELECTION

— MENU, HELP, EXIT

Most of the television functions can be operated with the remote control. When operating from menus, you can view HELP screens explaining each function.

1. **Press MENU ▼ or ▲.**

   A list of functions is displayed.

Note:
From here on, "MENU" will be omitted from the ▲▼ ◄ ► button names.

2. **Press ▼ or ▲ repeatedly to select the function you want.**

   The function you have selected is displayed in yellow.

3. **Press ◄ or ► to enter the setting screen.**

   The setting screen of the selected function will be displayed.

Note:
To stop the operation at any time, press the EXIT button.

4. **Following the instructions in the on-screen message, use ▼ and ▲ to move the cursor and ◄ or ► to make settings.**

   - When you have completed your settings, press the EXIT button to leave the menu screen.

Viewing explanations of functions

— HELP

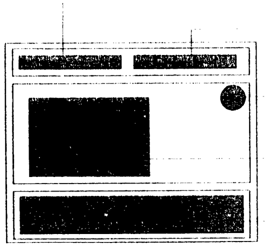
1. **Press the HELP button during menu operations.**

   The HELP screen shows an explanation of the currently selected function or its operations.

Note:
During setting operations, the HELP screen explains the operation.

2. **To return to the original screen, press the HELP button again.**

MENU Screens



Shows the group titles

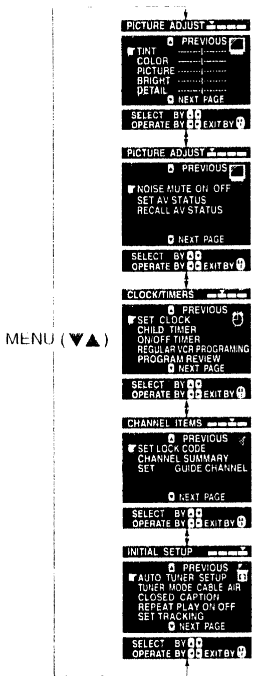
A different color is used to indicate the currently selected group. The title characters and icon are displayed in the same color.

Shows the group icon with each title.

Shows the function. The selected function is displayed in yellow.

Gives operation guidance. Read this guidance as you make your settings.

MENU Screen List


MENU (▼▲)
PICTURE ADJUST
PREVIOUS
TINT
COLOR
PICTURE
BRIGHT
DETAIL
NEXT PAGE
SELECT BY
OPERATE BY
EXIT BY
PICTURE ADJUST
PREVIOUS
NOISE MUTE ON OFF
SET AV STATUS
RECALL AV STATUS
NEXT PAGE
SELECT BY
OPERATE BY
EXIT BY
CLOCK/TIMERS
PREVIOUS
SET CLOCK
CHILD TIMER
ON/OFF TIMER
REGULAR VCR PROGRAMING
PROGRAM REVIEW
NEXT PAGE
SELECT BY
OPERATE BY
EXIT BY
CHANNEL ITEMS
PREVIOUS
SET LOCK CODE
CHANNEL SUMMARY
SET GUIDE CHANNEL
NEXT PAGE
SELECT BY
OPERATE BY
EXIT BY
INITIAL SETUP
PREVIOUS
AUTO TUNER SETUP
TUNER MODE CABLE AIR
CLOSED CAPTION
REPEAT PLAY ON OFF
SET TRACKING
NEXT PAGE
SELECT BY
OPERATE BY
EXIT BY

PICTURE ADJUST

TINT	p 18
COLOR	
PICTURE	
BRIGHT	
DETAIL	
NOISE MUTE	p.19
SET AV STATUS	p.18
RECALL AV STATUS	

CLOCK/TIMERS

SET CLOCK	p.22
CHILD TIMER	p.22
ON/OFF TIMER	p.23
REGULAR VCR PROGRAMMING	p 14
PROGRAM REVIEW	p 15

CHANNEL ITEMS

SET LOCK CODE	p.21
CHANNEL SUMMARY	p.20
SET VCR PLUS+ GUIDE CHANNEL	p. 8

INITIAL SETUP

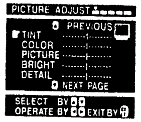
AUTO TUNER SETUP	p 7
TUNER MODE	p. 9
CLOSED CAPTION	p.19
REPEAT PLAY	p.24
SET TRACKING	p.11

SOUND AND PICTURE

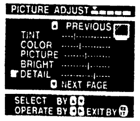
AV STATUS

You may want to adjust the picture to your preference.

1. Press the MENU buttons to display the picture adjustment screen.



2. Press ▼ or ▲ to select the item to set, then press ◄ or ► to set its level.



- This completes the setting. To leave the menu, press the EXIT button.

Note:
The selected item is displayed in yellow.

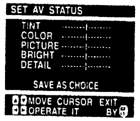
To memorize the adjusted picture settings

You can memorize picture adjustment settings.

You can easily recall the settings, so that picture settings can be switched over to enhance the program being watched.

1. Press the MENU buttons to select SET AV STATUS.

The SET AV STATUS menu appears.



2. Press ▼ or ▲ to select the item to set, then press ◄ or ► to set its level.

3. Press ▼ to move the cursor to SAVE AS CHOICE, then press ◄ or ► to select it.

- The setting is stored and the screen returns to the MENU screen.
  To leave the menu, press the EXIT button.

Item	MENU ◄ button	MENU ► button
TINT	Reddish	Greenish
COLOR	Subdued	Vivid
PICTURE	Light	Strong
BRIGHT	Dark	Bright
DETAIL	Soft	Sharp

To recall the stored picture settings

1. Press the MENU buttons to select RECALL AV STATUS.

The RECALL AV STATUS menu appears.

2. Press ◄ or ► to select CHOICE.

- The television changes to the settings you saved as CHOICE settings when you choose that option, and returns to factory settings when you choose RESET.

MUTE

You can mute the volume completely off.

1. Press MUTE.

"Mute" is displayed on the screen.

- Pressing it again restores the regular volume.

Note:
Muting can also be canceled by pressing VOLUME(-/+)

DISPLAY

You can display the current status of several special features.

1. Press DISPLAY repeatedly.

❶ Channel being received or the input mode
❷ Current time and date
❸ Status of TAPE SPEED
❹ Status of SLEEP TIMER
❺ Status of ON/OFF TIMER

Notes:
- When the videocassette recorder is not playing back a tape, only the counter will be displayed.
- While the clock is not working, "CLOCK NOT SET" is displayed instead of the current time.
- When CLOSED CAPTION is shown on the screen, other displays will go off after several seconds.

CLOSED CAPTION

You can watch the closed captions of a TV broadcast, a video tape or a video disc.

Condition:
Tune the TV a program or video source which contains a closed caption

1. Press CLOSED CAPTION repeatedly.

CLOSED CAPTION: To view the captions

TEXT: To view teletext
(If a black background appears while watching video tapes and discs without closed caption, set this function to OFF)

OFF: Turn the captions or TEXT mode off

Notes:
- The closed caption may not be correctly displayed for cable TV or a video source with copy guard
- A closed caption may not appear due to signal reception condition

HANDY CHANNEL SELECTION

RETURN+

This function allows you to easily select a registered channel (see description of a registered channel below). If the TV channel you are currently watching is registered, simply pressing this button returns the system to the registered channel after checking other channels during commercials.

1. **Press the RETURN+ button.**

   Changes to the registered channel.

To register a RETURN CHANNEL

1. **Select a desired channel.**
2. **Press and hold the RETURN+ button for more than 3 seconds.**

   "RETURN CHANNEL PROGRAMMING" will be displayed.

To cancel a RETURN CHANNEL

1. **Press and hold the RETURN+ button for more than 3 seconds.**

   "RETURN CHANNEL CANCELED" will be displayed.

Note:
Any registered RETURN CHANNEL will be canceled after the power to the TV is turned off, or when another channel is selected with the numeric keys

When no RETURN CHANNEL is registered

When no RETURN CHANNEL is registered, pressing the RETURN+ will change the channel to the one last viewed.

1. **Press RETURN+.**

   Television will alternate between the last viewed and presently viewed channels.

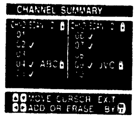
CHANNEL SUMMARY

You can view a summary of each channel's settings. You can also set or delete scanned channels, station ID, and CHANNEL GUARD.

To view the settings

1. **Press the MENU buttons to select CHANNEL SUMMARY.**

   The CHANNEL SUMMARY menu is displayed and you can view the current settings. From this menu, you can make these settings.



To set a channel for scanning

This operation sets the channels you can tune with the CH/HYPER SCAN (–/+) button. You can also delete channels set with AUTO TUNER SETUP.

> ***Condition:***
> Before making this setting, display the CHANNEL SUMMARY menu to select the channel you want to set.

1. **Press ◄ or ► to set or delete a channel.**

   The scanned channels are marked √.

To set other channels:
With the CH/HYPER SCAN (–/+) button, move the cursor to the channel you want to set and repeat Step 1.

- ● This completes the setting. To leave the menu, press the EXIT button.

Note:
To select a channel to set while the CHANNEL SUMMARY menu is being displayed, use the CH/HYPER SCAN (–/+) button.

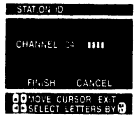
To set station IDs

A four-character station name can be displayed together with the channel number.

> ***Condition:***
> Before making this setting, display the CHANNEL SUMMARY menu to select the channel you want to set.

1. **Press ▼ or ▲ to move the cursor to the ID row. Press ◄ or ► to enter the ID setting menu.**

   The station ID setting menu is displayed.



2. **Press ◄ or ► to select the character, then press the ▼ to finalize it.**

   As each character is finalized, the cursor moves to the next position. Repeat Step 2 to set four characters.

To set other channels:
With the CH/HYPER SCAN (–/+) button, move the cursor to the channel you want to set and repeat Steps 1 and 2.

- ● This completes the setting. Select FINISH to return to the CHANNEL SUMMARY menu.
  To leave the menu, press the EXIT button.

Note:
Channels for which station IDs have been set are automatically set for scanning. When you delete a preset channel from scanning, its station ID is cleared automatically.

To set channel guarding (CHANNEL GUARD)

This sets channels so they can not be watched without inputting the lock code.

> ***Condition:***
> Before making this setting, display the CHANNEL SUMMARY menu to select the channel you want to set.

1. **Press ▼ or ▲ to move the cursor to the 🔒 row, then press 0.**

   The guarded channels are marked 🔒 .

To set other channels:
Press CH/HYPER SCAN (–/+) button, move the cursor to the channel you want to set and repeat Step 1.

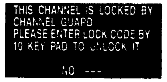
- ● This completes the setting. To leave the menu, press the EXIT button.

Notes:
- The LOCK CODE is the same as that of CHILD TIMER. The LOCK CODE is "000" when the TV is shipped from factory or after a power interruption.
- A guarded channel cannot be assigned to ON/OFF TIMER.

To view guarded channels

1. **Press the number keys to select the guarded channel.**

   The on-screen display appears requesting your LOCK CODE.



THIS CHANNEL IS LOCKED BY CHANNEL GUARD
PLEASE ENTER LOCK CODE BY 10 KEY PAD TO UNLOCK IT

NO ---

Note:
Guarded channels can not be selected with the CH/HYPER SCAN (–/+) button.

2. **Press the number keys to input the lock code.**

   - ● The on-screen display disappears and the television changes to the channel you selected.

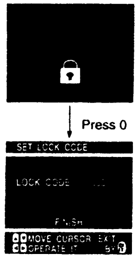
If the wrong LOCK CODE is entered:
INVALID LOCK CODE is displayed and the channel remains unchanged.

If the LOCK CODE has been forgotten:
Set another lock code.

To set the LOCK CODE

This procedure sets the lock code, which is used for the CHILD TIMER and for watching guarded channels.

1. Press the MENU buttons to select SET LOCK CODE.
   The lock symbol appears.
2. Press 0 before the symbol disapears.
   The SET LOCK CODE menu is displayed.
3. Press ◄ or ► to select the number, then press the ▼.
   Repeat Step 3 to set a 3-digit lock code.



4. Press ▼ to move the cursor to FINISH, then press ◄ or ► to select it.

- ● This completes the setting. To leave the menu, press the EXIT button.

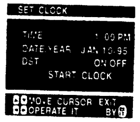
TIMER OPERATION

SET CLOCK

The TV has a built-in clock which keeps and displays the current time on the screen. The timer functions cannot be set if the clock stops or is not set.

1. Press the MENU buttons to select SET CLOCK.

The SET CLOCK menu is displayed.



SET CLOCK
TIME 1:00 PM
DATE/YEAR JAN 10 95
DST ON OFF
START CLOCK

2. Press the MENU buttons to make each setting.

Press the HELP button to confirm the operation procedures.
"THANK YOU" is displayed and the on-screen display disappears.

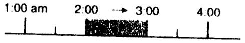
If a timer function is selected without setting the clock:
"POWER INTERRUPTED WOULD YOU SET CLOCK FIRST?" appears on the screen.
If you select YES, the SET CLOCK menu is displayed. Set the clock.
Once the clock is set, the display returns to timer setting mode and you are able to set the timer.
If you select NO, time setting mode ends and a message appears telling you that the timer cannot be set.

Notes:
- If there is a power interruption, the clock will stop and you will need to reset the date and time.
- The time is given in 12-hour format.

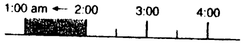
Daylight Saving Time (D.S.T.)

When D.S.T. is on:

- The system automatically advances its clock to 3:00 a.m. when the calendar time reaches 2:00 a.m. on the first Sunday in April.



- The system automatically sets its clock back to 1:00 a.m. when the calendar time reaches 2:00 a.m. on the last Sunday in October.



If Timer Recording has been set: (Example)
Spring (First Sunday in April):
- The system records for 60 minutes if Timer Recording has been set from 1:30 a.m. to 3:30 a.m.
- The system records for 30 minutes if Timer Recording has been set from 1:30 a.m. to 2:30 a.m.
- The system does not execute recording if Timer Recording has been set for from 2:30 a.m. to 3:30 a.m.
  (The setting itself will remain undisturbed.)

Autumn (Last Sunday in October):
- The system records for 120 minutes if Timer Recording has been set from 1:30 a.m. to 2:30 a.m.
- The system records for 90 minutes if Timer Recording has been set from 2:00 a.m. to 2:30 a.m.
- The system records for 90 minutes if Timer Recording has been set from 1:30 a.m. to 2:00 a.m.

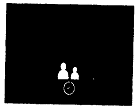
CHILD TIMER

Your TV can be turned off at a set time, every day. No picture will appear for 4 hours after it has turned off, unless a correct LOCK CODE is entered.

Condition:
The built-in clock must be set. (Refer to page 22.)

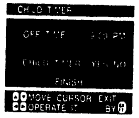
1. Press the MENU buttons to select CHILD TIMER.

The CHILD TIMER symbol is displayed.



2. Press 0 before the symbol disappears.

The CHILD TIMER menu is displayed.



CHILD TIMER
OFF TIME [illegible] PM
CHILD TIMER YES NO
FINISH

3. Press the MENU buttons to make each setting.

Press the HELP button to confirm the operation procedures.
The settings you have made are stored and the TV returns to the menu screen.

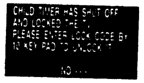
● This completes the setting.
To leave the menu, press the EXIT button.

Notes:
- If there is a power interruption, the CHILD TIMER will be canceled.
- If the clock is not working, the CHILD TIMER cannot be set.

To watch the TV within 4 hours after it has been turned OFF by CHILD TIMER

1. Press POWER.

"PLEASE ENTER LOCK CODE BY 10 KEY PAD TO UNLOCK IT." is displayed against a blue background.



CHILD TIMER HAS SHUT OFF AND LOCKED THE TV.
PLEASE ENTER LOCK CODE BY 10 KEY PAD TO UNLOCK IT.
NO - - -

2. Press the number keys to enter the LOCK CODE number.

● The on-screen display disappears and the picture appears on the screen.

Note:
As shipped from the factory or after a power interruption., the LOCK CODE will be "000". If this is acceptable as the LOCK CODE, the LOCK CODE need not be set. Refer to "To set the LOCK CODE" on page 21.

If the wrong LOCK CODE is entered:
"INVALID LOCK CODE." will be displayed and the blue background will remain.

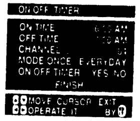
If the LOCK CODE has been forgotten:
Reset the LOCK CODE (Refer to page 21.)

ON/OFF TIMER

Conditions:
- The built-in clock must be set. (Refer to page 22.)
- If necessary to select the broadcast mode for the channels you will set (Refer to step 3 on page 9.)

1. Press the MENU buttons to select ON/OFF TIMER.

The ON/OFF TIMER menu is displayed.



ON/OFF TIMER
ON TIME 6:[illegible] AM
OFF TIME [illegible] AM
CHANNEL [illegible]
MODE ONCE EVERYDAY
ON/OFF TIMER YES NO
FINISH

2. Press the MENU buttons to make each setting.

Press the HELP button to confirm the operation procedures.
The settings you have made are stored and the television returns to the menu screen.

● This completes the setting.
The ON TIMER lamp lights up.
To leave the menu, press the EXIT button.

Notes:
- The ON/OFF TIMER cannot be set for channels set under CHANNEL GUARD. (Refer to page 21.)
- If no operation is done within two hours after the TV turns on by the ON/OFF TIMER, the TV will turn off automatically.

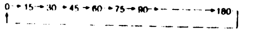
SLEEP TIMER

The TV will turn off even if you fall asleep while watching it.

Condition:
The built-in clock must be set. (Refer to page 22.)

1. Press the SLEEP TIMER button to set the amount of time until the TV turns off.

Each time you press SLEEP TIMER, the duration increases 15 minutes.



Note:
20 seconds prior to turning off the TV, "GOOD NIGHT!! PUSH SLEEP TIMER BUTTON TO EXTEND" will be displayed on the screen. If you press SLEEP TIMER while this message appears on the screen, turn off will be delayed by 15 minutes.

VCR FUNCTION

FF/REW

This function allows you to fast-forward/rewind while watching the screen.

To fast-forward

- **Press and hold down the FF button during playback.**
  Releasing the FF button resumes normal playback.
- **Press the FF button once during playback.**
  The system continues fast-forwarding.
  To resume normal playback, press the PLAY button.

To rewind

- **Press and hold down the REW button during playback.**
  Releasing the REW button resumes normal playback.
- **Press the REW button once during playback.**
  The system continues rewinding.
  To resume normal playback, press the PLAY button.

Notes:
- No sound will be output during fast-forwarding/rewinding.
- During fast-forwarding/rewinding, the playback picture will contain signal noise. This is caused by the changed playback speed, and is not a malfunction.

PAUSE

Use this function to pause the videotape being played back to display a still picture. Also, still pictures can be displayed frame by frame.

To pause to still picture

- **Press the PAUSE button during playback.**
  Playback is paused as a still picture.

To playback still-picture frames

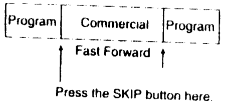
- **Press the PAUSE button with a still picture displayed.**
  Playback will advance one frame to display a still picture each time the PAUSE button is pressed.

Note:
The still picture will contain signal noise. This is caused by the changed playback speed, and is not a malfunction.

SKIP

Use this function to fast-forward playback for 30 seconds. (Useful function to skip unwanted portions of a videotape, such as commercials)

- **Press the SKIP button during playback.**
  The system fast-forwards the videotape for 30 seconds, starting from the point where the button is pressed. After 30 seconds, the system resumes normal playback.



Up to four presses of the SKIP button can be accepted at one time. The duration of fast forward increases according to the number of times the button is pressed.

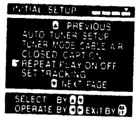
Once	Twice	Three times	Four times
30 sec	60 sec	90 sec	120 sec

Note:
Pressing the PLAY button during Skip returns the system to normal playback.

REPEAT PLAY

Use this function to repeatedly play back a videotape from beginning to end.

1. **Press the MENU buttons to select REPEAT PLAY.**



INITIAL SETUP
▲ PREVIOUS
AUTO TUNER SETUP
TUNER MODE CABLE AIR
CLOSED CAPTION
☛ REPEAT PLAY ON OFF
SET TRACKING
▼ NEXT PAGE
SELECT BY ▲▼
OPERATE BY ◀▶ EXIT BY

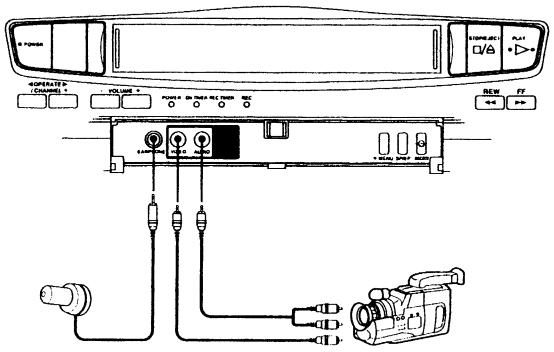
2. **Press the ◄ ► button to select ON.**

When the videotape is played back to its end, the system automatically stops playback, rewinds to the beginning of the tape, and starts playback again.

Notes:
- During rewinding, REPEAT PLAY ON will appear on the screen.
- To stop playback in progress, press the STOP button.

CONNECTION DIAGRAM

Conditions:
- Before connecting external devices, be sure to disconnect the TV from the AC outlet.
- When you want to view from a connected device such as a VCR, change the TV input mode with TV/VIDEO. Refer to step 2 on page 9.



Name	Connecting Devices
EARPHONE jack	Earphone
INPUT jacks	Camcorder, VCR, Video game

Notes:
- Refer to the manuals provided with the other devices.
- Interference from connected devices may cause the picture quality to deteriorate. If picture noise occurs, turn off devices that you are not using or move them further apart.

Using the EARPHONE jack:
Using the optional earphone allows you to listen to the sound of the TV set without outputting audio from its built-in speakers. Connect the earphone to the EARPHONE jack.

Copying Videotapes

Pictures recorded with other video equipment (Camcorder, etc.) can be copied using the video deck of this unit.

1. Press the TV/VIDEO button to select AUX.
2. Operate to perform playback with the video deck (or Camcorder) connected to the system.
3. While holding down the REC button, press the PLAY button to record the desired scene.

Notes:
- To record with this unit, press the REC/ITR button inside the front cover.
- Refer to page 12 for the details on recording.

TROUBLESHOOTING

- Sometimes a simple problem like the power cord being disconnected or the antenna causing interference leads the television operator to believe that there is a problem requiring servicing. Because many problems can be cleared up easily, some common occurences are listed below. Be sure to check these possible causes before calling your lacal service technician or television deaeler.

Important:

- Review all the instructions written in this guide

■ GENERAL

Problem	Cause	Action
No power supply	Is the power cord plug disconnected?	Insert the plug into AC outlet. (Refer to page 6)
No picture or sound	Is the antenna disconnected?	Check the antenna connections. (Refer to page 6)
	Is the antenna facing in the correct direction?	Position the antenna in the correct direction.
	Is the CHILD TIMER operating?	Enter the LOCK CODE. (Refer to page 23)
	Is the TV station the problem?	Watch another channel. If there are no problems with another channel, the TV station may be the problem.
Inoperable remote control	Are batteries exhausted?	Replace the batteries. (Refer to page 6)
	Is the remote control too far from the TV?	Operate the remote control within approx. 23 ft. (7 meters) of the TV.
	The TV does not receive remote control commands for some reason.	Press POWER on the TV to turn it off, then turn it on again.
The channel cannot be selected.	Have the channels been set?	Preset the channels. (Refer to page 7)
	Is the selected channel guarded?	Press the remote control number keys to select the channel, then enter the LOCK CODE. (Refer to page 21)
The power shuts off automatically.	Is the SLEEP TIMER set?	Press POWER to turn on the TV again. (Refer to page 23)
	Is the CHILD TIMER set?	Press POWER to turn on the TV, then enter the LOCK CODE. (Refer to page 23)
The TV clock is incorrect or the clock has stopped.	Was there a power interruption?	Set the clock correctly. (Refer to page 22)
The timer operation does not work.	Was there a power interruption?	If there is a power interruption, the timer operation will be canceled. Set it again. Also check that the clock is correct. (Refer to pages 22 to 23)

■ PICTURE

Problem	Cause	Action
Poor colors	Are the COLOR and TINT controls adjusted incorrectly?	Adjust the COLOR and TINT controls. (Refer to page 18)
	Is it a black and white program?	Change the channel and watch a color program.

■ PICTURE

Problem	Cause	Action
Snowy picture (Image noise)	Is the external antenna cut or disconnected?	Check the antenna connection. (Refer to page 6)
	Is the antenna turned the wrong direction due to strong wind, etc.?	Position the antenna correctly.
	Is the antenna damaged?	Replace or repair the antenna.
The screen turns blue.	Is a non-broadcasting channel selected?	Select a broadcast channel.
	Is Noise Mute on?	Turn off Noise Mute. (Refer to page 19)
TV screen has a black square covering 80% of the screen.	Is the Closed Caption Text Mode on?	Press CLOSED CAPTION button to turn OFF Text Mode. (Refer to page 19)

■ VCR

Problem	Cause	Action
Cannot play back	The system may be in Ready mode to execute timer recording.	Press the TIMER button so that the REC TIMER lamp goes dark. (Refer to pages 13 and 14.)
Cannot record	The safety tab may be removed from the videocassette.	Replace with another tape, or apply cellophane tape to act as the safety tab. (Refer to page 10.)
Recording does not stop	The system may be performing timer recording.	Press the TIMER button so that the REC TIMER lamp goes dark, then press the STOP button. (Refer to pages 13 and 14.)
Cannot copy	Is connection correct?	Confirm the connection. (Refer to page 25.)
	Is the system switched to AUX input?	Press the TV/VIDEO button to select Video mode (AUX). (Refer to page 9.)
REC TIMER lamp blinking	The setting of timer recording is incorrect.	Use the MENU button to confirm the setting. (Refer to page 15.)
	Is a videocassette loaded?	Load a videocassette with the safety tab intact. (Refer to page 10.)

Head Cleaning

After a protracted period of use, the picture may become rough.

Symptom:

- When videotapes are played back, a rough picture is produced.
- The picture is unclear, or no picture is displayed.

Measures:

- Use a dry VHS Head Cleaning Cassette to clean the video head. It only takes 10 seconds to run the cleaning cassette (no picture is displayed).

If the symptom persists after using the cleaning cassette, consult your dealer or JVC Service Center.

The following are normal occurrences and are not the result of TV malfunctions:

- When you touch the CRT (Cathode Ray Tube: Picture tube) surface, you might feel a slight charge of static electricity. This is because the CRT contains static electricity; it does not affect the human body.
- Your TV may emit a crackling sound due to a sudden change in temperature. There is no problem unless the picture or sound is abnormal.
- When a stilll bright image (of a white dress, for example) appears on the screen the image may be colored. This problem occurs in all CRTs, and as the bright image disappears, such coloration also dissappears.

SPECIFICATIONS

Model	**TV-C2026**
Type	TV/VCR COMBO
Receiving	NTSC system
Received	VHF 2 to 13, UHF 14 to 69; Sub Mid, Mid, Super, Hyper and Ultra bands (180-channel frequency synthesizer system)
Power supply	120V AC, 60Hz
Power consumption	MAX. 115 W, AVG. 104 W 1.6 A
Screen size	20"/50.8 cm measured diagonally, Full square
Audio output	1.5 W monaural sound
Speakers	2" ×3-1/2"/5 cm ×9 cm oval ×1
Antenna terminal	75-ohms (VHF/UHF) terminal (F-type connector)
External input jacks	Video: 1 Vp-p, 75-ohms Audio: 500 mV rms (–4dBs), high impedance
Recording/playback system	VHS system 2 rotary heads herical scanning syetem
Video signal	NTSC system
Recording system	VHS monaural system Monaural - - linear track system
Tape speed	33.5 mm/sec (SP), 11.12 mm/sec (EP)
External dimensions (W×H×D)	21-1/8" ×20-1/4" ×19-3/8" 53.6 ×51.3 ×48.9 cm
Mass	55.2 lbs/25.1 kg
Accessories	Remote control unit ×1 AAA (R03) batteries ×2

Design and specifications subject to change without notice.

CABLE TV CHANNEL CONVERSION CHART

In addition to normal TV reception from an antenna for VHF (Channels 2 to 13) and UHF (Channels 14 to 69), your TV set is equipped to receive non-scrambled cable TV channels. Sub-Mid band (A-8, A-4 to A-1), Mid band (A to I), Super band (J to W), Hyper band (W+1 to W+28) and Ultra band (W+29 to W+84) can be received by using the channel selections as shown in the following chart.

Note:

- Reception of channel A-5 ("95" of the TV set's on-screen CABLE channel numbers) is not recommended for your TV set.

*	A-8	A-4	A-3	A-2	A-1	A	B	C	D	E	F	G	H	I	J	K	L	M	N
**	01	96	97	98	99	14	15	16	17	18	19	20	21	22	23	24	25	26	27

*	O	P	Q	R	S	T	U	V	W	W+1	W+2	W+3	W+4	W+5	W+6	W+7	W+8	W+9	W+10
**	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46

*	W+11	W+12	W+13	W+14	W+15	W+16	W+17	W+18	W+19	W+20	W+21	W+22	W+23	W+24	W+25	W+26	W+27	W+28	W+29
**	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65

*	W+30	W+31	W+32	W+33	W+34	W+35	W+36	W+37	W+38	W+39	W+40	W+41	W+42	W+43	W+44	W+45	W+46	W+47	W+48
**	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84

*	W+49	W+50	W+51	W+52	W+53	W+54	W+55	W+56	W+57	W+58	W+59	W+60	W+61	W+62	W+63	W+64	W+65	W+66	W+67
**	85	86	87	88	89	90	91	92	93	94	100	101	102	103	104	105	106	107	108

*	W+68	W+69	W+70	W+71	W+72	W+73	W+74	W+75	W+76	W+77	W+78	W+79	W+80	W+81	W+82	W+83	W+84
**	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125

* : Regular cable channel designations
** : Your TV set's corresponding on-screen CABLE channel numbers

FOR CANADA, SEE THE SEPARATE SHEETS FOR WARRANTY/GUARANTEE AND JVC AUTHORIZED SERVICE CENTERS IN CANADA.

HOW TO LOCATE YOUR JVC SERVICE CENTER

TOLL FREE: 1-800-537-5722

Dear customer:
In order to receive the most satisfaction from your purchase, read the instruction booklet before operating the unit. In the event that repair is necessary, or for the address nearest your location, please refer to the factory service center list below or within the Continental United States, call 1-800-537-5722 for your authorized servicer. Remember to retain your Bill of Sale for Warranty Service.
-JVC

JVC SERVICE & ENGINEERING COMPANY OF AMERICA

DIVISION OF US JVC CORP.

FACTORY SERVICE CENTER LOCATIONS

107 Little Falls Road
Fairfield, NJ 07004-2105
(201) 808-9279

5665 Corporate Avenue
Cypress, CA 90630-0024
(714) 229-8011

230 Eliot Street
Ashland, MA 0172-2377
(508) 881-5923

1500 Lakes Parkway
Lawrenceville, GA 30243-5357
(404) 339-2522

10700 Hammerly Suite 110
Houston, TX 77043
(713) 935-9331

14505 Commerce Way
Miami Lakes, FL 33016-1512
(305) 362-6252

705 Enterprise Street
Aurora, IL 60504-8149
(708) 851-7855

2969 Mapunapuna Place
Honolulu, HI 96819-2040
(808) 833-5828

890 Dubuque Avenue
South San Francisco, CA
94080-1804
(415) 871-2666

Sophisticated electronic products may require occasional service. Just as quality is a keyword in the engineering and production of the wide array of JVC products, service is the key to maintaining the high level of performance for which JVC is world famous. The JVC service and engineering organization stands behind our products.

NATIONAL HEADQUARTERS
JVC SERVICE & ENGINEERING COMPANY OF AMERICA
DIVISION OF US JVC CORP.
107 Little Falls Road
Fairfield, NJ 07004-2105

If you ship the product...

Pack your JVC unit in the original carton or one of equivalent size and strength. Enclose, with the unit, a letter stating the problem or symptom that exists and also a copy of the receipt or bill of sale you received when you purchased your JVC unit. Print your home return address on the outside and the inside of the carton. Send to the appropriate JVC Factory Service Center as listed above.

Don't service it yourself.

CAUTION

To prevent electrical shock, do not open the cabinet. No user serviceable parts inside. Refer servicing to qualified service personnel.

ACCESSORIES

To purchase accessories for your JVC product, you may contact your local JVC Dealer. Or from the 48 Continental United States call toll free: 800-882-2345.

BT-51012-1
(0495)

FOR CANADA, SEE THE SEPARATE SHEETS FOR WARRANTY/GUARANTEE AND JVC AUTHORIZED SERVICE CENTERS IN CANADA.

LIMITED WARRANTY

JVC

TV/VCR COMBO 1-90-2

JVC COMPANY OF AMERICA warrants this product and all parts thereof, except as set forth below ONLY TO THE ORIGINAL PURCHASER AT RETAIL to be FREE FROM DEFECTIVE MATERIALS AND WORKMANSHIP from the date of original purchase for the period as shown below. ("The Warranty Period") (PICTURE TUBE is covered for Two(2) years.)

MODEL NO.	SERIAL NO.	PARTS 1 YR	LABOR 90 DAYS

THIS LIMITED WARRANTY IS VALID ONLY IN THE FIFTY (50) UNITED STATES, THE DISTRICT OF COLUMBIA AND IN THE COMMONWEALTH OF PUERTO RICO.

WHAT WE WILL DO:

If this product is found to be defective, JVC will repair or replace defective parts at no charge to the original owner. Such repair and replacement services shall be rendered by JVC during normal business hours at JVC authorized service centers. Parts used for replacement are warranted only for the remainder of the Warranty Period. All products and parts thereof may be brought to a JVC authorized service center on a carry-in basis except for Television sets having a screen size 25 inches and above which are covered on an in-home basis.

WHAT YOU MUST DO FOR WARRANTY SERVICE:

Return your products to a JVC authorized service center with a copy of your bill of sale. For your nearest JVC authorized service center, please call toll free: (800) 537-5722.

If service is not available locally, box the product carefully, preferably in the original carton, and ship, insured, with a copy of your bill of sale plus a letter of explanation of the problem to the nearest JVC Factory Service Center, the name and location of which will be given to you by the toll-free number.

WHAT IS NOT COVERED:

This limited warranty provided by JVC does not cover:

1. Products which have been subject to abuse, accident, alteration, modification, tampering, negligence, misuse, faulty installation, lack of reasonable care, or if repaired or serviced by anyone other than a service facility authorized by JVC to render such service, or if affixed to any attachment not provided with the products, or if the model or serial number has been altered, tampered with, defaced or removed;
2. Initial installation and installation and removal for repair;
3. Operational adjustments covered in the Owner's Manual, normal maintenance, video and audio head cleaning;
4. Damage that occurs in shipment, due to act of God, and cosmetic damage;
5. Signal reception problems and failures due to line power surge;
6. Video Pick-up Tubes/CCD Image Sensor, Cartridge, Stylus (Needle) are covered for 90 days from the date of purchase;
7. Accessories;
8. Batteries (except that Rechargeable Batteries are covered for 90 days from the date of purchase).

There are no express warranties except as listed above.

THE DURATION OF ANY IMPLIED WARRANTIES, INCLUDING THE IMPLIED WARRANTY OF MERCHANTABILITY, IS LIMITED TO THE DURATION OF THE EXPRESS WARRANTY HEREIN.

JVC SHALL NOT BE LIABLE FOR THE LOSS OF USE OF THE PRODUCT, INCONVENIENCE, LOSS OR ANY OTHER DAMAGES, WHETHER DIRECT, INCIDENTIAL OR CONSEQUENTIAL (INCLUDING, WITHOUT LIMITATION, DAMAGE TO TAPES, RECORDS OR DISCS) RESULTING FROM THE USE OF THIS PRODUCT, OR ARISING OUT OF ANY BREACH OF THIS WARRANTY. ALL EXPRESS AND IMPLIED WARRANTIES, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSE, ARE LIMITED TO THE WARRANTY PERIOD SET FORTH ABOVE.

Some states do not allow the exclusion of incidental or consequential damages or limitations on how long an implied warranty lasts, so these limitations or exclusions may not apply to you. This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

If you have any questions concerning your JVC Product, please contact our Customer Relations Department.

JVC COMPANY OF AMERICA
DIVISION OF US JVC CORP.

41 Slater Drive
Elmwood Park, New Jersey 07407

REFURBISHED PRODUCTS CARRY A SEPARATE WARRANTY. THIS WARRANTY DOES NOT APPLY FOR DETAILS OF REFURBISHED PRODUCT WARRANTY, PLEASE REFER TO THE REFURBISHED PRODUCT WARRANTY INFORMATION PACKAGED WITH EACH REFURBISHED PRODUCT.

SAFETY PRECAUTIONS

1 The design of this product contains special hardware, many circuits and components specially for safety purposes. For continued protection,no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Service should be performed by qualified personnel only.

2. Alterations of the design or circuitry of the products should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacturer of responsibility for personal injury or property damage resulting therefrom.

3 Many electrical and mechanical parts in the products have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the parts list of Service manual. **Electrical components having such features are identified by shading on the schematics and by (⚠) on the parts list in Service manual.** The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement part shown in the parts list of Service manual many create shock, fire, or other hazards.

4 **Use isolation transformer when hot chassis.**
The chassis and any sub-chassis contrained in some products are connected to one side of the AC power line. An isolation transformer of adequate capacity should be inserted between the product and the AC power supply point while performing any service on some products when the HOT chassis is exposed.

5 **Don't short between the LIVE side ground and ISOLATED (NEUTRAL) side grounding or EARTH side ground when repairing.**
Some model's power circuit is partly different in the GND. The difference of the GND is shown by the LIVE (⊥) side GND, the ISOLATED (NEUTRAL) (⊥) side GND and EARTH (⏚) side GND. Don't short between the LIVE side GND and ISOLATED (NEUTRAL) side GND or EARTH side GND and never measure with a measuring apparatus (oscilloscope etc.) the LIVE side GND and ISOLATED (NEUTRAL) side GND or EARTH side GND at the same time.
If above note will not be kept, a fuse or any parts will be broken.

6 If any repair has been made to the chassis, it is recommended that the B_1 setting should be checked or adjusted (See ADJUSTMENT OF B_1 POWER SUPPLY)

7. The high voltage applied to the picture tube must conform with that specified in Service manual. Excessive high voltage can cause an increase in X-Ray emission, arcing and possible component damage, therefore operation under excessive high voltage conditions should be kept to a minimum, or should be prevented. If severe arcing occurs, remove the AC power immediately and determine the cause by visual inspection (incorrect installation, cracked or melted high voltage harness, poor soldering, etc.) To maintain the proper minimum level of soft X-Ray emission, components in the high voltage circuitry including the picture tube must be the exact replacements or alternatives approvided by the manufacturer of the complete product.

8 Do not check high voltage by drawing an arc. Use a high voltage meter or a high voltage probe with a VTVM. Discharge the picture tube before attempting meter connection, by connecting a clip lead to the ground frame and connecting the other end of the lead through a 10kΩ 2W resistor to the anode button.

9 When service is required, observe the original lead dress. Extra precaution should be given to assure correct lead dress in the high voltage circuit area. Where a short circuit has occurred, those components that indicate evidence of overheating should be replaced. Always use the manufacturer's replacement components.

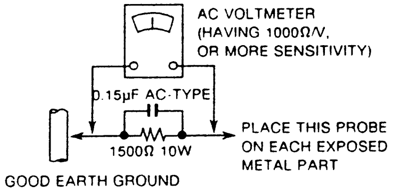
10. **Isolation Check**
(Safety for Electrical Shock Hazard)
After re-assembling the product, always perform an isolation check on the exposed metal parts of the cabinet (antenna terminals, video/audio input and output terminals, Control knobs,metal cabinet, screwheads, earphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock.

(1) **Dielectric Strength Test**
The isolation between the AC primary circuit and all metal parts exposed to the user, particularly any exposed metal part having a return path to the chassis should withstand a voltage of 1100V AC (r.m.s.) for a period of one second.
(Withstand a voltage of 1100V AC (r.m.s.) to an appliance rated up to 120V, and 3000V AC (r.m.s.) to an appliance rated 200V or more, for a period of one second.)
This method of test requires a test equipment not generally found in the service trade.

(2) **Leakage Current Check**
Plug the AC line cord directly into the AC outlet (do not use a line isolation transformer during this check.) Using a "Leakage Current Tester", measure the leakage current from each exposed metal part of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground (water pipe, etc.) Any leakage current must not exceed 0.5mA AC (r.m.s.)

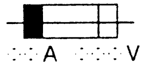
- **Alternate Check Method**

Plug the AC line cord directly into the AC outlet (do not use a line isolation transformer during this check.) Use an AC voltmeter having 1000 ohms per volt or more sensitivity in the following manner. Connect a 1500Ω 10W resistor paralleled by a 0.15μF AC-type capacitor between an exposed metal part and a known good earth ground (water pipe, etc.) Measure the AC voltage across the resistor with the AC voltmeter. Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Any voltage measured must not exceed 0.35V AC (r.m.s.) This corresponds to 0.5mA AC (r.m.s.)



11 **High voltage hold down circuit check.**
After repair of the high voltage hold down circuit, this circuit shall be checked to operate correctly.
See item "**How to check the high voltage hold down circuit**"

This mark shows a fast operating fuse, the letters indicated below show the rating.



FEATURES

- New chassis design enables use of a single board with simplified circuitry.
- Provided with miniature tuner (TV/CATV).
- PLL synthesizer system TV/CATV totaling 180 channels.
- Multifunctional remote control permits picture adjustment.
- Adoption of the CHANNEL GUARD function prevents the specific channels from being selected, unless the "ID number" is key in.
- Adoption of the AV STATUS function that can store 2 variations for preset picture adjustment, to change the picture tone to your preference.
- ON/SLEEP TIMER for setting in real time.
- With 75Ω V/U in common (F-Type) ANT Terminal.
- Closed-caption broadcasts can be viewed.
- Audio Video input terminal.

DIFFERENCE LIST OF MAIN PARTS

⚠	PART NAME	TV-C2026(US)	TV-C2026(CA)	TV-C2126(LA)
	MAIN PWB ASS'Y	SGL-1006A-H2	SGL-1506A-H2	SGL-1710A-H2
⚠	RATING LABEL	CM22907-002-H	CM22874-001-H	CM22818-001-H
⚠	INST. BOOK	CQ40004-001-H	CQ40005-001-H	CQ40088-001-H
	PACKING CASE	CP11400-025-H	CP11400-025-H	CP11400-040-H
	REGISTRATION CARD	BT-51006-1H		——
	WARRANTY CARD	——	BT-52002-1-H	——
	SVC CENTER LIST	——	BT-20071B-H	——

TECHNICAL INFORMATION

■ MICRO PROCESSING CONTROL UNIT (IC701 : MN1874862J7A0)

- The microprocessor circuit of this model is composed mainly of a 64 pins control CPU(MN1873237JKH6).

Pin No.	Port name	IN/OUT	Function	Pin No.	Port name	IN/OUT	Function
1	P06/RMIN	IN	RMIN	33	P42	IN	MECHA-CON(DPLAY)
2	ADIN0/SDA1	IN	KEY IN(1)	34	P41	OUT	MAIN POWER OFF/ON
3	ADIN1/SCL1	IN	KEY IN(2)	35	P40	OUT	B1 POWER OFF/ON
4	ADIN2/P50	I/O	SDA(AT24C04)	36	P21/XO	OUT	N.C.
5	ADIN3/P51	OUT	SCL(AT24C04)	37	P20/XI	OUT	N.C.
6	ADIN4/P52	IN	KEY IN(3)	38	VSS	——	GND
7	ADIN5/P53	IN	AFC(S CURVE) INPUT	39	HSYNC	IN	HSYNC INPUT
8	ADIN6/P54	IN	OVER CURRENT DET.	40	P16/SD	IN	SYNC PULSE IN
9	ADIN7/P55	IN	CRT NECK PROTECTION	41	VOB/P15	OUT	ON SCREEN BACKGROUND OUT
10	ADIN8/P56	IN	XRAY PROTECTION	42	VOW3/P14	OUT	ON SCREEN B. OUT
11	ADIN9/ACIN	IN	AC INPUT	43	VOW2/P13	OUT	ON SCREEN G. OUT
12	CM	IN	GND	44	VOW1/P12	OUT	ON SCREEN R. OUT
13	SYNC	OUT	N. C.	45	SPWM/P11	OUT	AGC MUTE
14	PWM1/P30	OUT	TINT CONTROL	46	VOI/P10	IN	SYSTEM CONSTANT IN
15	PWM2/P31	OUT	COLOR CONTROL	47	P66	OUT	WHITEBACK
16	PWM3/P32	OUT	PICTURE CONTROL	48	P65	OUT	AUDIO MUTE OFF/ON
17	PWM4/P33	OUT	BRIGHT CONTROL	49	P64	OUT	TV/VIDEO SWITCH (2)
18	PWM5/P34	OUT	DETAIL CONTROL	50	P63	OUT	TV/VIDEO SWITCH (1)
19	PWM6/P35	OUT	VOLUME CONTROL	51	P62	OUT	ON TIMER OFF/ON
20	PWM7/P36	OUT	VSYNC SW	52	P61	OUT	REC TIMER OFF/ON
21	PWM8/P37	IN	NGV DET.	53	P60	OUT	REC
22	AVDD	——	+5V	54	RST/P07	IN	RST INPUT
23	CREF	OUT	————	55	VSYNC/IRQ1	IN	VSYNC INPUT
24	VPH	OUT	————	56	IRQ0/P04	IN	POWER STOPPAGE DETECTION
25	VCP	OUT	————	57	P03/SBD0	IN	TUNER(LOCK)
26	CVBS	IN	C. C. D VIDEO SIGNAL INPUT	58	P02/SBT0	OUT	TUNER(DATA)/SYS.CON.OUT(2)
27	AVSS	——	GND	59	P01/SDA0	OUT	TUNER(CLOCK)/SYS.CON.OUT(1)
28	P47	IN	MECHA-CON(DATA IN)	60	P00/SCL0	OUT	TUNER(ENABLE)
29	P46	OUT	MECHA-CON(DATA OUT)	61	VDD	——	+5V
30	P45	OUT	MECHA-CON(CLK)	62	OSC1	IN	SYSTEM CLOCK (IN)
31	P44	OUT	MECHA-CON(BUSY)	63	OSC2	OUT	SYSTEM CLOCK (OUT)
32	P43	IN	MECHA-CON(CE)	64	VSS	——	GND

TV VIDEO SWITCHING OUT

Pin No. / Mode	50 Pin(P63)	49 Pin(P64)
TV	L	L
VTR	H	L
AUX	L	H

SELF CHECK DETECT VOLTAGE

	OK	NG
XRAY PROTECTION (ADIN8 ⑩ PIN)	0~3.65V	3.65~5.0V
CRT NECK PROTECTION (ADIN7 ⑨ PIN)	2.5~5.0V	0~2.5V
OVER CURRENT DET (ADIN6 ⑧ PIN)	0~2.5V	2.5~5.0V

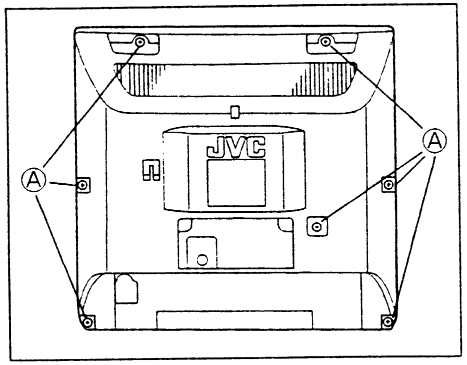
SPECIFIC SERVICE INSTRUCTIONS

■ DISASSEMBLY PROCEDURE (TV SECTION)

REMOVING THE REAR COVER

•Confinm the power cord is disconnected from AC.

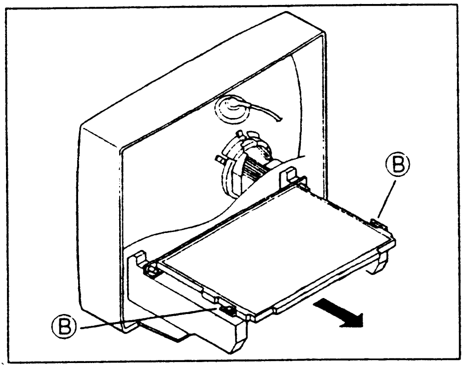
1. Take out 7screws A.
2. While pulling out the power cord,carefully remove the rear cover in the reward direction.



PULLING OUT THE MAIN P.W. BOARD

•Remove the rear cover.

1. Take out screws B from the left and right of the main chassis and disengage the tabs near the screws. Disengage wire clamps and other parts as required.

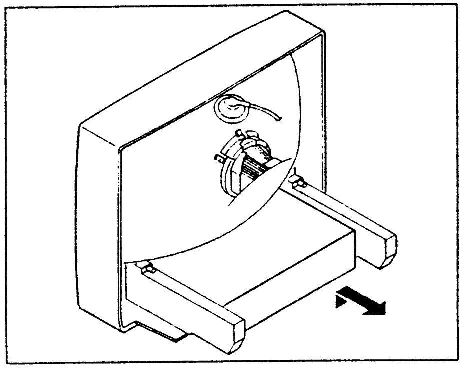


REMOVING THE VIDEO SECTION

1. Remove the rear cover.
2. Disconnect the video section connector.
3. Raise the front of the video deck and pull it rearward to remove.

•The video deck can be removed without pulling out the main chassis.

•During reassembly,be sure the cassette intake is open by hand while installing.

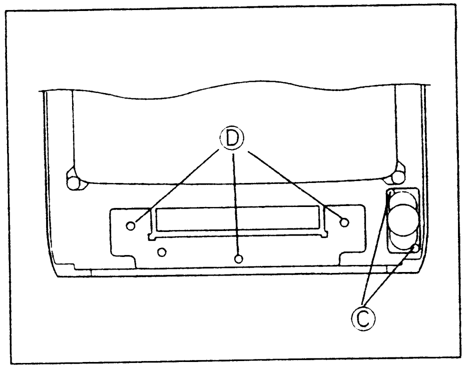


REMOVING THE SPEAKERS

1. Remove the rear cover.
2. Take out 2 screws C and remove the speaker.

REMOVING THE FRONT CONTROL PWB

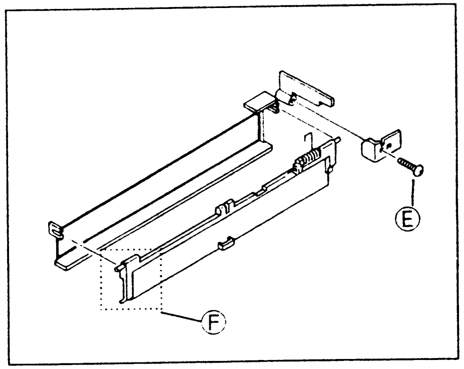
1. Remove the rear cover.
2. Remove the video deck.
3. Take out 3 screws D and remove the front control PWB.



REMOVING THE CASSETTE DOOR

1. Remove the rear cover.
2. Remove the video deck.
3. Take out 1screw F and remove the bracket.
4. Remove the cassete door in the inward direction.

•Use care not to apply excess forse to side F. If pulled too forcibly,the front panel operation buttons can be shifted inward and prevent operation.



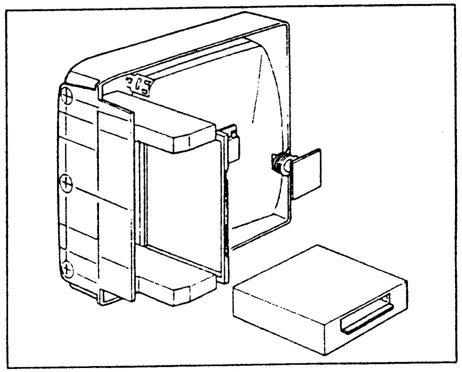
MAIN CHASSIS INSPECTION

1. Place the set as shown in the figure.
2. Place an object below the main PWB to prevent it from falling.

•Disengage clamps and other parts as required.

Wire clamps and bands

1. Use care to install the wire clamps correctly.
2. Avoid removing the wire bundling bands. If removed,carefully install and replace the wires in their original posotions. Be sure to use insulated type wire bands.



■ DISASSEMBLY PROCEDURE (VCR SECTION)

REMOVING THE TOP COVER

1. Remove the video deck from the TV set.
2. Take out 5 screws A.
3. Raise and remove the top cover.

REMOVING THE VTR MAIN PWB

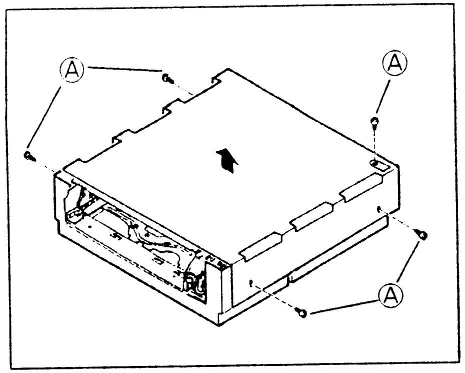
1. Remove the video deck from the TV set.
2. Remove the top cover.
3. Take out 4 screws B.

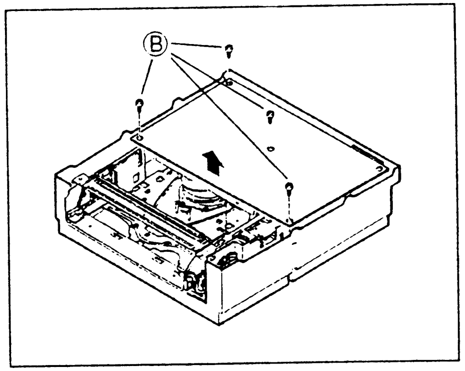
REMOVING THE PRE/REC PWB

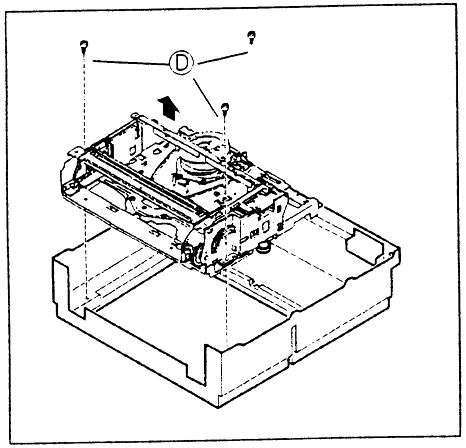
1. Remove the video deck from the TV set.
2. Remove the top cover.
3. Remove the VTR main PWB.
4. Take out 2 screws C.
5. Raise and remove the PWB.

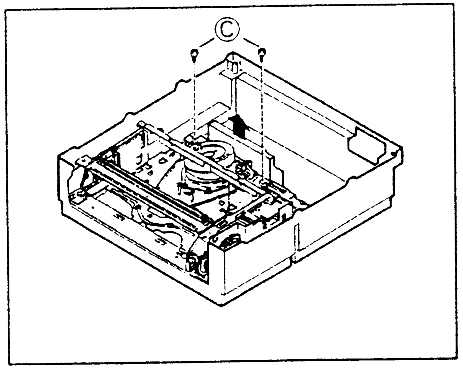
REMOVING THE PRE/REC PWB

1. Remove the video deck from the TV set.
2. Remove the top cover.
3. Remove the VTR main PWB.
4. Remove the pre/rec PWB.
5. Take out 3 screws D.
6. Raise and remove the mechanism assembly.









Caution

This model cannot be serviced with the TV and video sections separated. Perform video section service as a set with the TV mainframe.

INPORTANT

Do not leave the TV set unattended with the video section removed. There is danger of a user inserting a cassette into the vacant slot and touching live parts.

■MECHA.DISASSE./ASSEMBLY

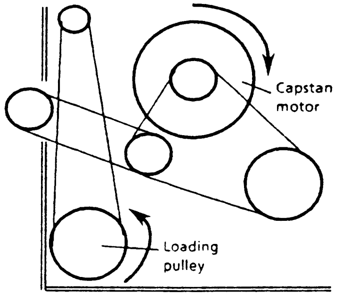
CAUTIONS

1. Use ample care during work not to damage tabs and other parts.
2. Obserb the cassette intake is open when reinstalling the video section,e.g.,hold the intake open by hand when reinstalling.

Removing a cassette tape manually

In ivent of a power supply system failure while a cassette is loaded,remove the cassette tape manually by the following procedure.

1. Remove the video section from the TV mainframe.
2. Remove the VTR top cover and main PWB in allow easily observing the tape condition.
3. As shown in the figure,turn the loading pulley by hand to shift the tape to the unloading mode. At the same time,turn the capstan motor by hand as shown in the figure to take up tape slack.
4. When the loading pulley no longer turns(tape unloading completed). Continue turning only the capstan motor to eject the cassette.



Cleaning

Although periodic cleabing of the transport parts is desirable,itis usually not practicable. Therefore, make it a point to clean the tape transport whrever the set is brought in for service or at other opportunities.
Soiled video heads and tape guides can impair playback picture quality and if severe,prevent a picture from being obtained and lead to tape damage.

1. When cleaning the upper drum especially the video heads,moisten a fine woven clothor kimwipe with alcohol,gently hold it against the upper drum with the fingerlips and turn the upperdrum counter-clockwise.

Caution
Do not wipe the upper drum vertically,sinse the video heads can be damaged.

2. Also use a fine woven cloth or Kimwipe and alcohol to clean other parts of the tape transport.
3. After cleaning,confirm the parts are thoroughly dry before transporting a video tape.

Lubrication

Periodic application or oil or grease is not required. Apply these only on new parts after replacement. If the corresponding parts are soiled,clean these as well and apply new lubrication.

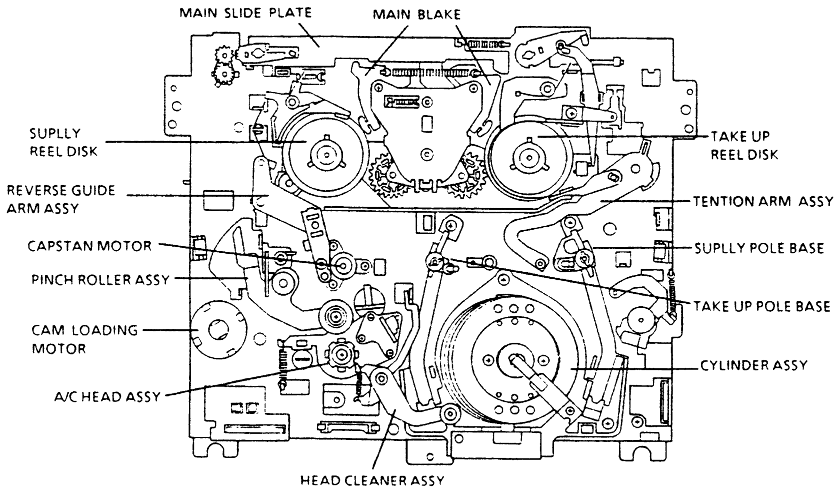
1. Apply oil or grease to the locations indicated in the grease application diagram.Use the oil or grease indicated in the following table.

Type	Parts number
Grease	G-495G

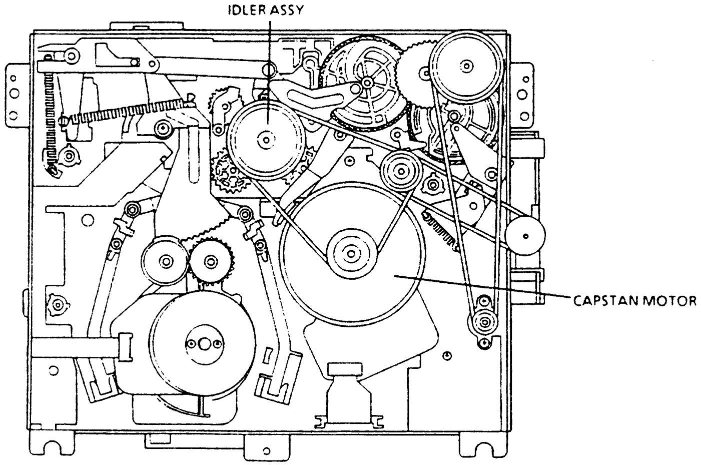
2. Grease has already been applied to cassette housing assemblies supplied as service parts.

Note:If grease has not been used for an extenden period,gently knead it before using.

MAIN MECHANISM PARTS ARRANGEMENT


MAIN SLIDE PLATE
MAIN BLAKE
SUPLLY REEL DISK
TAKE UP REEL DISK
REVERSE GUIDE ARM ASSY
TENTION ARM ASSY
CAPSTAN MOTOR
SUPLLY POLE BASE
PINCH ROLLER ASSY
TAKE UP POLE BASE
CAM LOADING MOTOR
CYLINDER ASSY
A/C HEAD ASSY
HEAD CLEANER ASSY

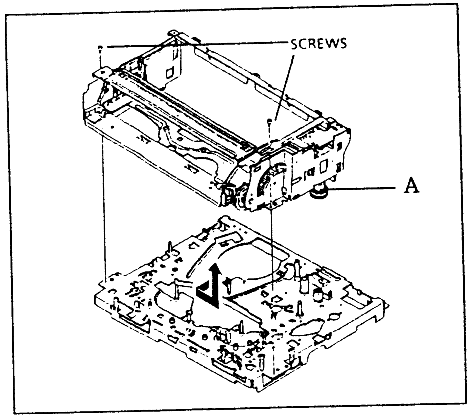
[MAIN DECK UPPER SIDE]


IDLER ASSY
CAPSTAN MOTOR

[MAIN DECK BOTTOM SIDE]

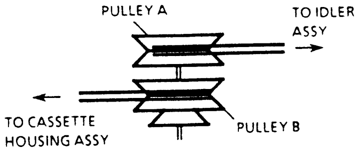
CASSETTE HOUSING ASSEMBLY

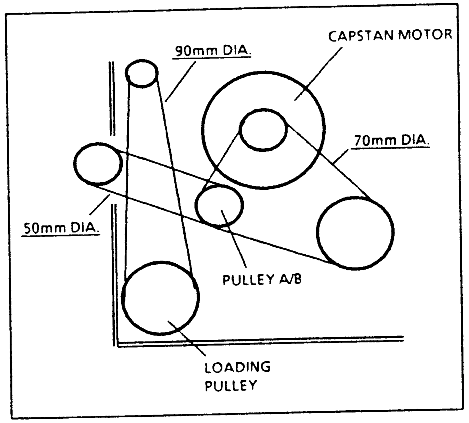
1. Disengage the belt of part A.
2. Take out 2 screws and remove the cassette housing assy as shown in the figure.



BELT

1. Disengage the belts during disassembly.
2. During reassenbly,engage the belts as shown in the figure.

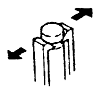

PULLEY A
TO IDLER ASSY
TO CASSETTE HOUSING ASSY
PULLEY B

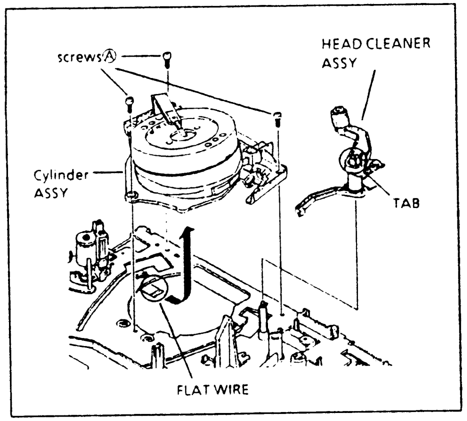

90mm DIA.
CAPSTAN MOTOR
70mm DIA.
50mm DIA.
PULLEY A/B
LOADING PULLEY

Disassemble the following items according to the indicated sequence. unless otherwise method.reassemble by reversing the disassembly steps.

HEAD CLEANER AND CYLINDER ASSY

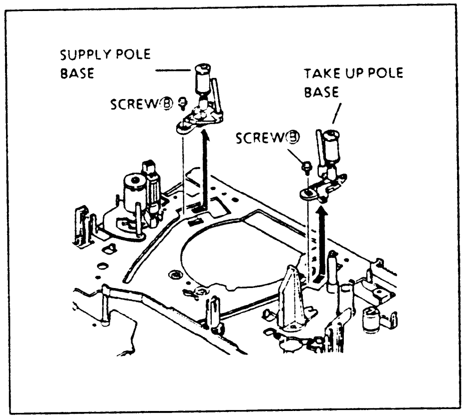
1. As shown in the figure, disengage the tab and pull the head cleaner assembly upward to remove it.
2. Remove the pre/rec PWB.
3. Disengage the flat wire.
4. Take out 3 screws A and pull the cylinder assembly upward as shown in the figure.




screwsⒶ
HEAD CLEANER ASSY
Cylinder ASSY
TAB
FLAT WIRE

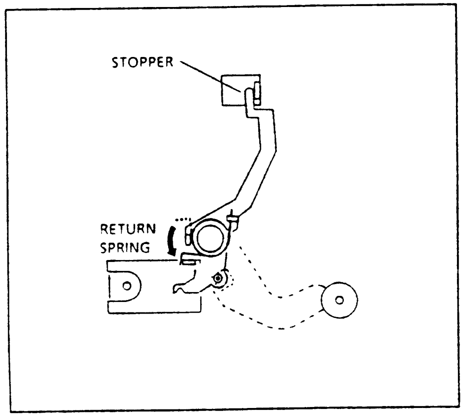
Supply and take up pole bases

1. Take out screws B. It is not necessary to set to the full loading mode.
2. Pull the pole bases upward as shown in the figure.


SUPPLY POLE BASE
SCREWⒷ
TAKE UP POLE BASE
SCREWⒷ

REASSEMBLY NOTE

1. Set the head cleaner assembly spring as shown in the figure and secure the spring with a pin. Attach the head cleaner assembly to the mechanism base.,then return the spring to the currect position indicated by the arrow.
2. Set the stopper to the posotion indicated in the figure.


STOPPER
RETURN SPRING

UPPER DRUM ASSY AND LOWER DRUM MOTOR DRUM ASSY

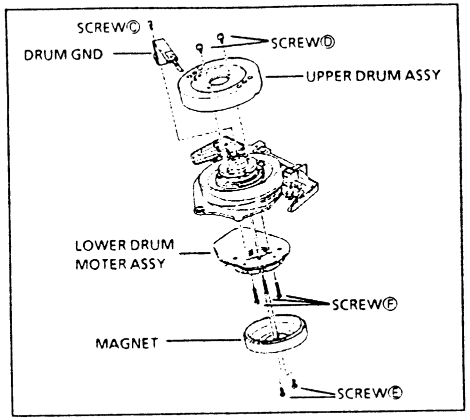
*The cylinder assembly does not need to be removed.

[UPPER DRUM ASSY]

1. Take out screw C and remove the drum base assembly.
2. Take out 2 screws D and remove the upper drum assembly.

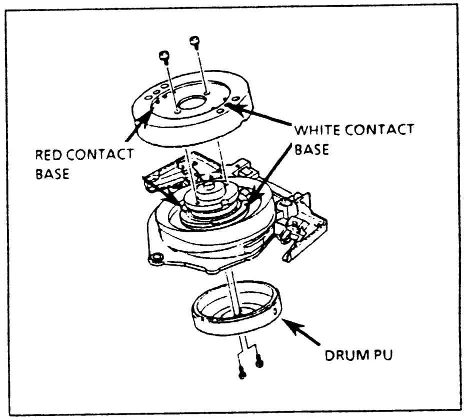
[LOWER DRUM ASSY]

1. Take out 2 screw E and remove the magnet.
2. Take out 3 screws F and remove the lower drum assembly.


SCREWⒸ
DRUM GND
SCREWⒹ
UPPER DRUM ASSY
LOWER DRUM MOTER ASSY
SCREWⒻ
MAGNET
SCREWⒺ

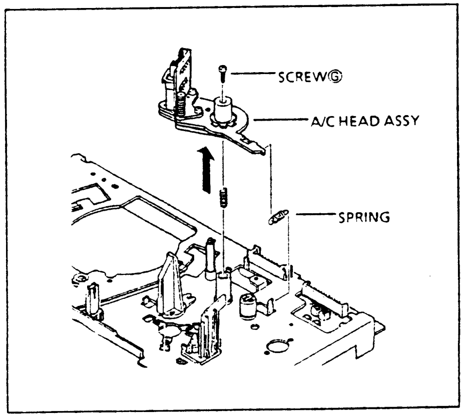
[Reassembly notes]

1. When installing the upper drum,align the contact bases (red and white) of the upper and lower drums.
2. When installing the magnet, align the drum PU with the white contact point base.


WHITE CONTACT BASE
RED CONTACT BASE
DRUM PU

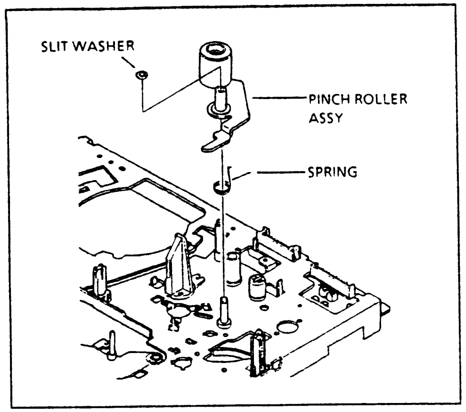
AC HEAD ASSEMBLY

1. Remove the head cleaner assembly.
2. Remove the spring.
3. Loosen screw G and pull the A?C head upward to remove it.Use care not to damage the pinch roller.


SCREWⒼ
A/C HEAD ASSY
SPRING

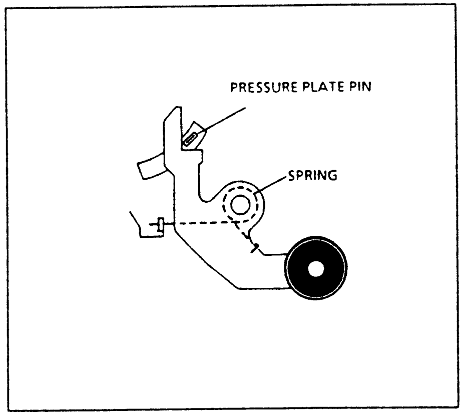
PINCH ROLLER ASSY

1. Take off the slit washer and pull the pinch roller assembly upward to remove it.


SLIT WASHER
PINCH ROLLER ASSY
SPRING

[Reassembry note]
*Remove the rear cover.

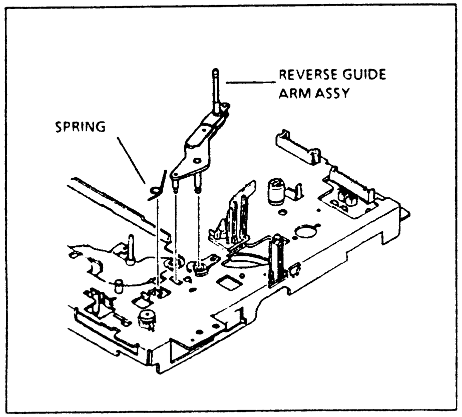
1. Refer to the figure,engage the spring and position the pressure plate pin as shown.


PRESSURE PLATE PIN
SPRING

REVERSE GUIDE ARM ASSEMBLY

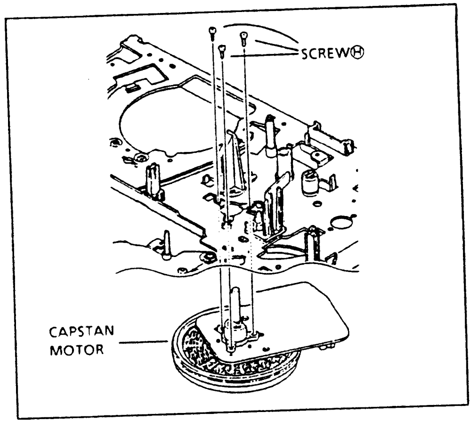
1. Disengage the tab(rear) securing the recerse guide arm assembly upward to remove it.

[Reassembry note]
Set to assembry mode when reassembling.


REVERSE GUIDE ARM ASSY
SPRING

CAPSTAN MOTOR

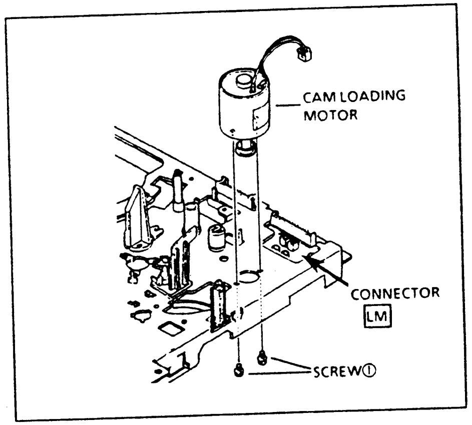
1. Take out 3 screws H and remove the capstan motor.


SCREWⒽ
CAPSTAN MOTOR

CAM LOADING MOTOR

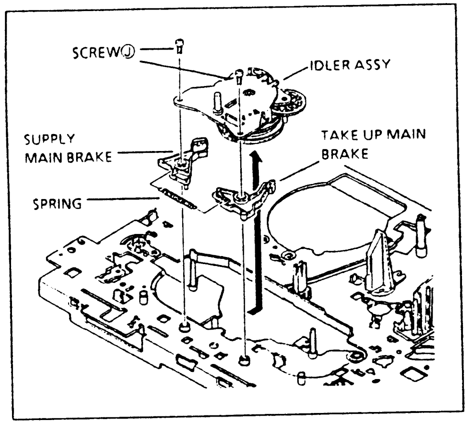
1. Take out 2 screws I and remove the cam loading motor.

[Reassembly note]
Connect the connector labeled LM.(Do not connect anything to connector DW.)


CAM LOADING MOTOR
CONNECTOR
LM
SCREWⒾ

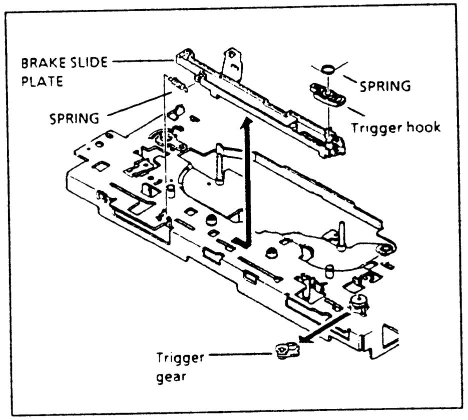
IDLER ASSEMBLY AND MAIN BRAKES

1. Take out 2 screws J and remove the idler assembly as shown in the figure.
2. Pull and remove the supply and take up main brakes in the upward direction.


SCREW Ⓙ
IDLER ASSY
SUPPLY MAIN BRAKE
TAKE UP MAIN BRAKE
SPRING

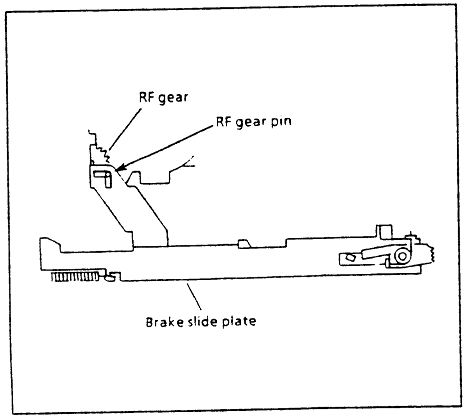
BRAKE SLIDE PLATE

1. Pukk and remove the trigger gear as indicated in the figure.
2. Disengage the spring,pull and remove the brake slide plate as shown in the figure.


BRAKE SLIDE PLATE
SPRING
SPRING
Trigger hook
Trigger gear

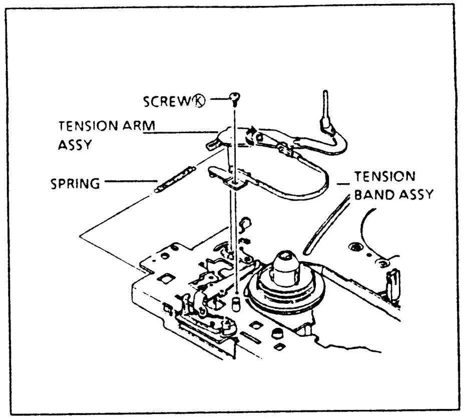
[Reassembly notes]

1. Position the RF gear pin as shown in the figure.
2. Engage the main brake spring from the supply side so as not to bend the tab.


RF gear
RF gear pin
Brake slide plate

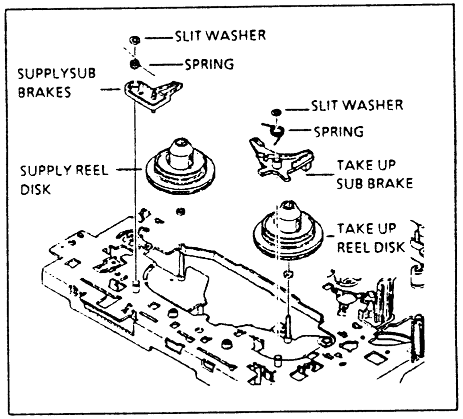
TENSION ARM ASSY,TENSION BAND ASSY

1. Take out screw K and remove the spring.
2. Disengage the tab(rear) securing the tension arm assembly shaft and remove the tension arm assembly in the upward direction.
3. Turn the coupling and remove the tension band assembly from the tension arm assembly.


SCREW Ⓚ
TENSION ARM ASSY
SPRING
TENSION BAND ASSY

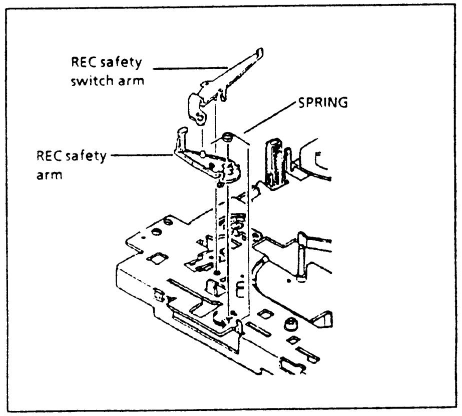
SUB BRAKES AND REEL DISKS

1. Remove the slit washers and springs,then pull the sub brakes upward to remove them.
2. Pull the reel disks upward to remove them.


SLIT WASHER
SPRING
SUPPLYSUB BRAKES
SLIT WASHER
SPRING
TAKE UP SUB BRAKE
SUPPLY REEL DISK
TAKE UP REEL DISK

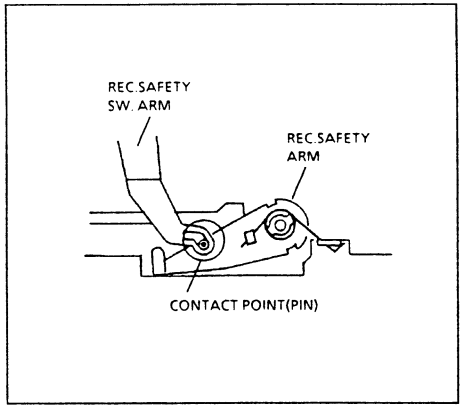
REC SAFETY SWITCH ARM AND REC SAFETY ARM

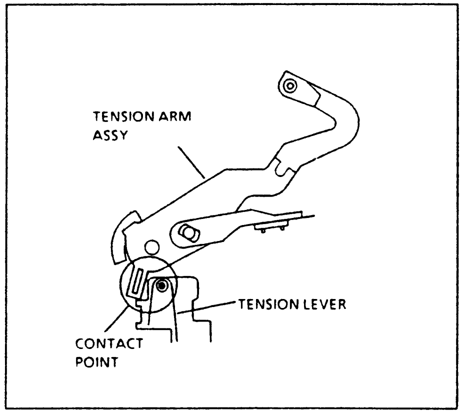
1. Remove the RECsafety switch arm.
2. Disengage the spring and turn the RECsafety arm to remove it.


REC safety switch arm
SPRING
REC safety arm

[Reassembly notes]

1. Set to the assembly mode and set the REC safety arm and REC safety switch arm contact point as shown in the figure.In the assembly mode.set so that the detection pin does not contact the cassette erase prevent tab.
2. The supply and take up reel disks differ. The top of the supply reel disk is marked with an "s".
3. In the assembly mode,set the tension arm assembly and tension lever contact point as shown in the figure.


REC.SAFETY
SW. ARM
REC.SAFETY
ARM
CONTACT POINT(PIN)


TENSION ARM
ASSY
TENSION LEVER
CONTACT
POINT

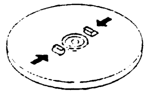
CAM AND LOADING SECTION

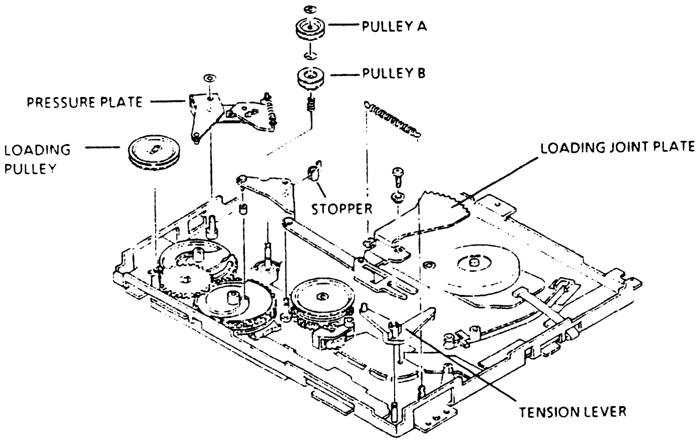
1ST LAYER

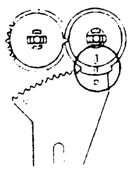
1. Disengage the tab.pull up and remove the loading pulley.
2. Remove the slit washer.pull up and remove the pressure plate.
3. Take off the slit washer and remove pulley A. Take off the slit washer and remove pulley B. Remove the spring.
4. Remove the spring ,screw,slit washer and stopper. Pull up and remove the pressure plate.Use care not to misplace the cam roller.
5. Pull up and remove the tension lever.

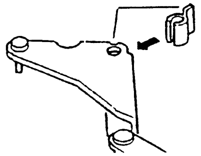
[Reassembly notes]

1. When installing the tension lever,refer to Tension lever assy .
2. Set to the assembly mode and set the contact point between the loading joint plate and tape loading geat as indicated in the figure.
3. Install the stopper as shown in the figure.
4. When installing the pressure plate,refer to pinch roller assy .
5. Set the loading pulley with the cylindrical projection upward(so that the pulley can easily turn ed by hand).




PULLEY A
PULLEY B
PRESSURE PLATE
LOADING
PULLEY
LOADING JOINT PLATE
STOPPER
TENSION LEVER



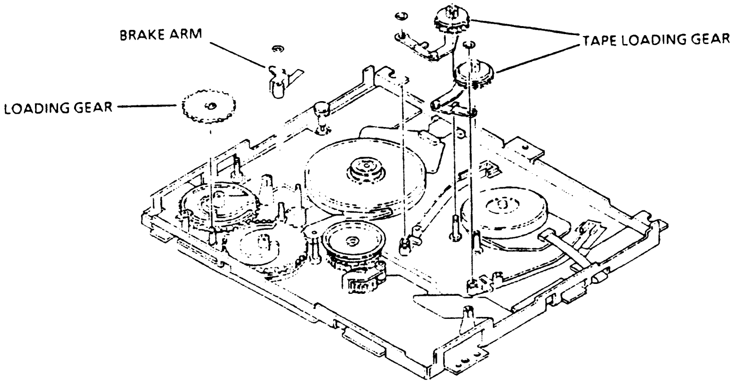


2ND LAYER

1. Disengage the tab,pull up and remove the loading gear.
2. Take off the slit washer,pull up and remove the breaker arm.
3. Take off the slit washer,pull up and remove the tape loading gear.

[Reassembly notes]

1. In the assembly mode,set the tape loading gear supply and take up side contact points as shown in the figure.

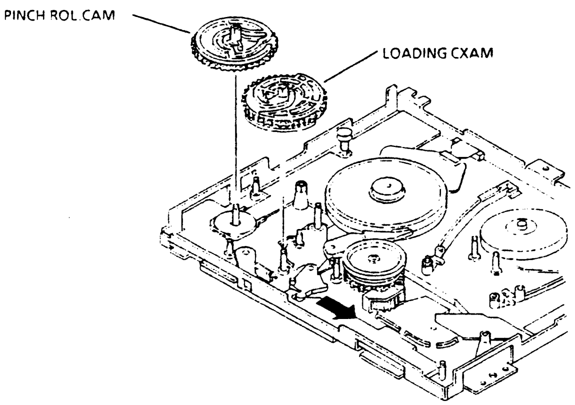


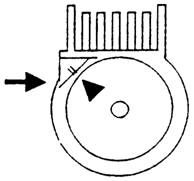
3RD LAYER

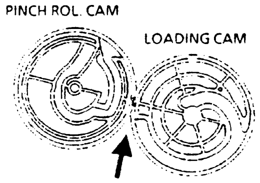
1. Disengage the tab,pull up and remove the pinch roller cam.
2. Disengage the tab,pull up and remove the loading cam.

[Reassembly notes]

1. Install the cams in the assembly mode. In the assembly mode,the main slide plate is shifted fully in the direction shown by the arrow in the figure.
2. Set the rotary encoder to the assembly mode as shown in the figure.
3. In the assembly mode,set the pinch roller cam and loading cam contact point as indicated in the figure.
4. When installing the pinch roller cam,press the take up sub brake in the release direction (sub brake control pin separated from the cam) by hand and install.





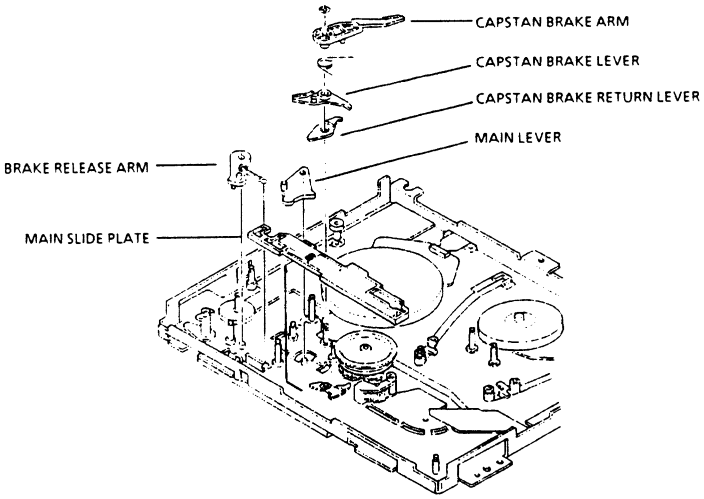


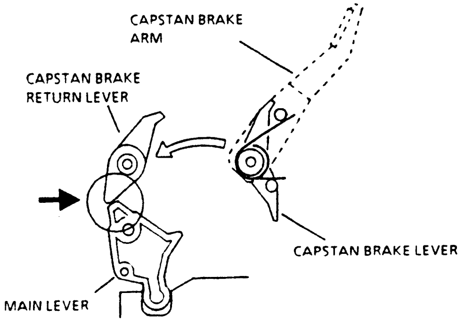
4TH LAYER

1. Take off the slit washer,pull up and remove the capstan brake arm,spring,capstan brake lever and capstan brake return lever.
2. Pull up and remove the main lever.
3. As shown in the figyre,pull and remove the main slide plate.
4. Remove the spring,pull up and remove the brake release arm.

[Reassembly notes]

1. In the assembly mode, install the main lever and capstan brake return lever as shown in the figure.
2. Assemble and install the capstan brake arm,spring and capstan brake lever as shown in the figure.


CAPSTAN BRAKE ARM
CAPSTAN BRAKE LEVER
CAPSTAN BRAKE RETURN LEVER
MAIN LEVER
BRAKE RELEASE ARM
MAIN SLIDE PLATE


CAPSTAN BRAKE ARM
CAPSTAN BRAKE RETURN LEVER
CAPSTAN BRAKE LEVER
MAIN LEVER

■ MEMORY IC REPLACEMENT

This model uses a non-volatile memory IC. If this memory IC is replaced, the data must be rewritten.
A normal picture will not be obtained unless the correct data are entered into the replacement IC.

MAIN PWB IC703(AT24C04-10PC)

This IC is used mainly as a last setting memory. The following items are set by the user and stored in the memory.

1. Symptoms of faulty IC.
   Picture and sound obtained, but picture is not normal.

2. Replacement procedure
   1) Before replacing the IC, receive a broadcast and to the extent possible, make a note of the memory values indicated in the table.
   2) Switch off the power and disconnect the power cord from the AC outlet.
   3) Replace IC703.
   4) Reconnect the power cord to AC and switch on the power.
   5) Use the remote controller and enter the values noted in above step 1. For items unable to note, use the factory settings indicated in the table.

Setting items	Factory settings
NOISE MURE	OFF
SET AV STATUS	CENTER(ALL)
ON/OFF TIMER	NO
AUTO TUNER SETUP	OTHERS
TUNER CODE	AIR
CLOSED CAPTION	CAPTIOM CC1 TEXT T1
REPEAT PLAY	OFF
SELF CHECK	GOOD(ALL)

SERVICE ADJUSTMENTS

TOOLS AND FIXTURES FOR ADJUSTMENT

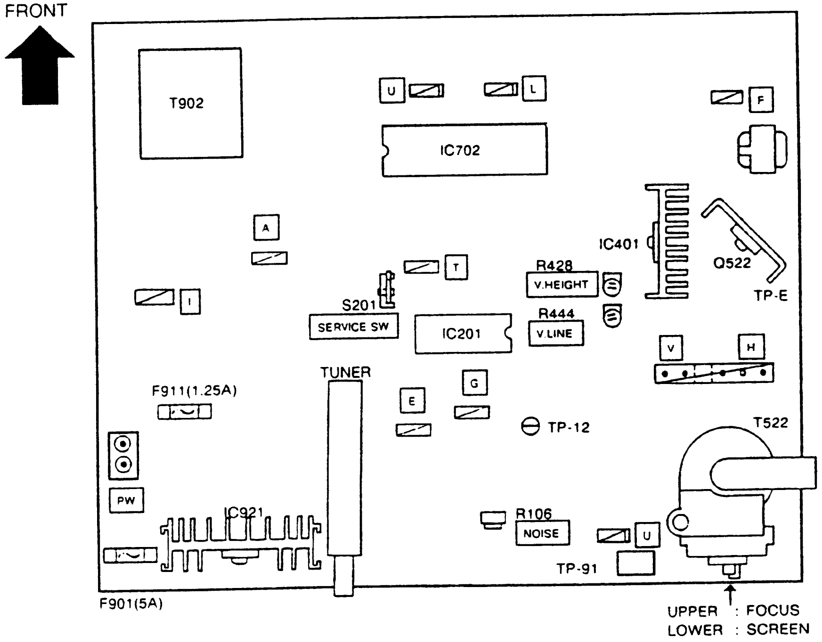
- DC VOLTMETER
- PATTERN GENERATOR(NTSC)

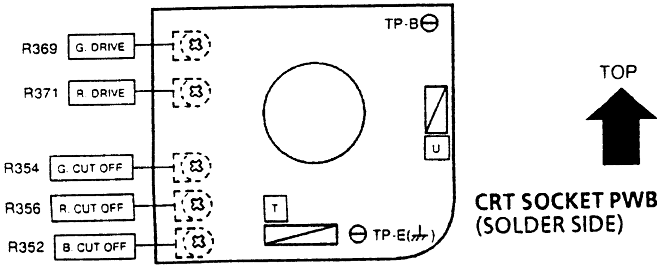
NOTE

- Before commencing any adjustment, set the FUNCTION (BRIGHT, PICTURE, COLOR, etc.) to the standard LEVEL by pressing the MENU button on the remote controller.

■ ADJUSTMENT LOCATION

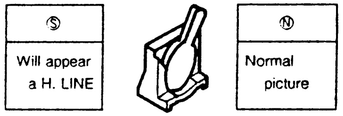
MAIN PWB ASS'Y


FRONT
T902
U
L
F
IC702
A
IC401
Q522
R428
V.HEIGHT
T
TP-E
I
S201
SERVICE SW
R444
V.LINE
IC201
V
H
TUNER
F911(1.25A)
G
E
⊖ TP-12
T522
PW
IC921
R106
NOISE
U
TP-91
F901(5A)
UPPER : FOCUS
LOWER : SCREEN


TP-B⊖
R369
G. DRIVE
R371
R. DRIVE
R354
G. CUT OFF
R356
R. CUT OFF
R352
B. CUT OFF
U
T
⊖ TP-E(⏊)
TOP

CRT SOCKET PWB ASS'Y
(SOLDER SIDE)

■ ADJUSTING STEP WITH VRs AND OTHER PARTS

Item	Measuring instrument	Test point	Adjustment part	Description
B1 POWER SUPPLY	DC Voltmeter	TP-91		· Receive a monoscope pattern. 1. Connect a tester to TP-91 and TP-E (⏊) to check that the voltage is DC 130.0V ± 1V. · The tester must have an internal resistance of 20kΩ/V or above.
NOISE (RF AGC)			NOISE VR (R106)	1. Turn the NOISE VR so that noise appear in the picture. 2. Then adjust the NOISE VR in the direction where noise disappears from the picture, and stop it where noise has disappeared from the picture. 3. Select another channel, and make sure that there occurs no trouble.
V. HEIGHT & V. LINEARITY	Pattern Generator		V. HEIGHT VR (R428) V. LINE. VR (R444)	1. Receive a picture that enable vertical symmetry to be checked. 2. Turn the V. HEIGHT VR to compress the picture vertically. 3. Adjust the V. LINE. VR to where the picture is symmetrical top and bottom. 4. Again adjust the V. HEIGHT VR to return the normal height.
FOCUS			FOCUS VR	1. Adjust the FOCUS VR to obtain clear pictures. 2. Check that pictures have been adjusted to optimum appearance in both central and peripheral areas of the screen.
HORIZONTAL LINE			SERVICE SWITCH (S201)	1. Turning the SERVICE SWITCH from the N side to the S side will bring the horizontal line display to the screen.  Ⓢ Will appear a H. LINE Ⓝ Normal picture

TINT, COLOR, PICTURE AND BRIGHT SUB-ADJUSTMENTS

- Tint, Color, Picture and Bright sub-adjustments are enabled by setting the service mode with the remote controller.

1. SERVICE MODE SETTING

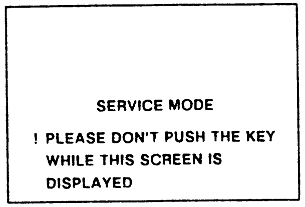
1) Press the [MENU▽OR△] key.
2) Select 11. Set Clock (press [MENU▽/△]).
3) Set to 3:21 AM.
4) Press the [MUTE] key.
5) Press the [MENU ▽/△] keys to obtain the service mode screen indicated in Fig. 1.
6) After the service screen is displayed (about 5 seconds), press the [MENU ▽/△ or </➤] keys to produce the service menu screen indicated in Fig. 2.

2. ADJUSTMENTS

1) Select 1. SUB VOLUME(Press [MENU] key) to produce the adjustment screen .
2) Select TI, CO, PI or BR with the [MENU ▽/△] keys (selected item is indicated in YELLOW).
3) Adjust for optimum picture with the [MENU</➤] keys.
4) Press the [EXIT] key(TWISE) or set [POWER] off to store the adjustments and release the service mode.

[NOTE]

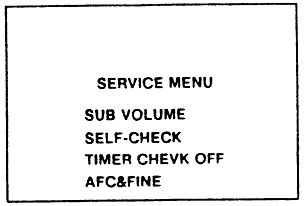
1. Do not use "TIMER CHECK" or "AFV&FINE" on the SERVICE MENU screen shown in Fig. 2.
   If you have selected them, disconnect the power cord to cancel it.



SERVICE MODE

! PLEASE DON'T PUSH THE KEY
WHILE THIS SCREEN IS
DISPLAYED

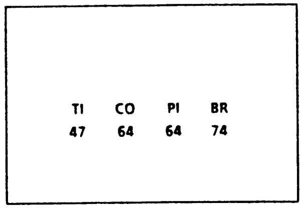
Fig.1



SERVICE MENU

SUB VOLUME
SELF-CHECK
TIMER CHEVK OFF
AFC&FINE

Fig.2



TI	CO	PI	BR
47	64	64	74

Fig.3

Note : The TI, CO, PI or BR indicated values may not necessarily coincide with the figure. Although these are nominal standard adjustment values, exact correspondence is not essential.

Variable range
TI 0-128 PI 0-128
CO 0-128 BR 0-128

HOW TO CHECK THE HIGH VOLTAGE HOLD DOWN CIRCUIT

1. HIGH VOLTAGE HOLD DOWN CIRCUIT

After repairing of the high voltage hold down circuit shown in Fig. 1.
This circuit shall be checked to operate correctly.

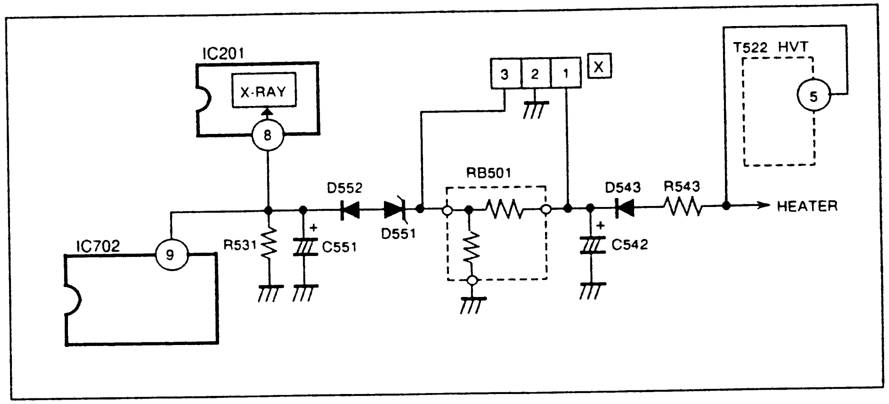


Fig. 1

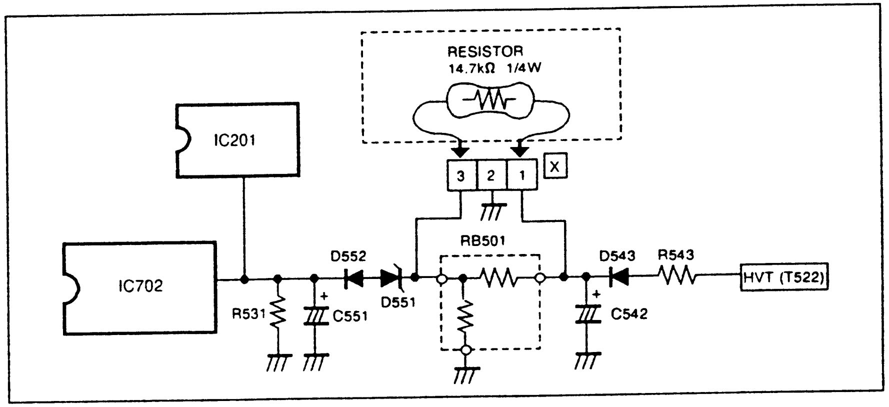
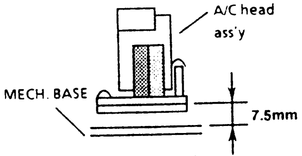
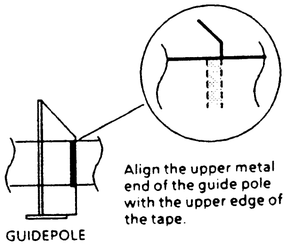
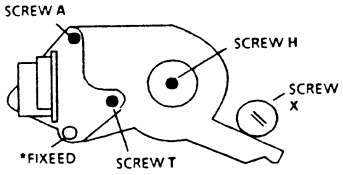
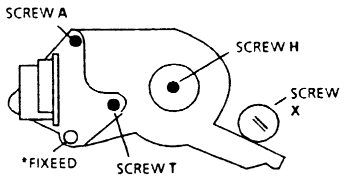
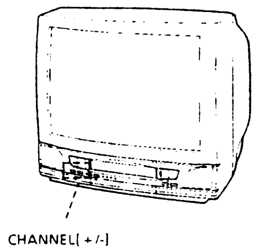


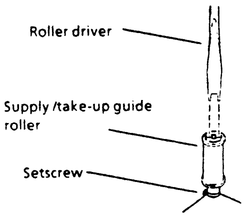
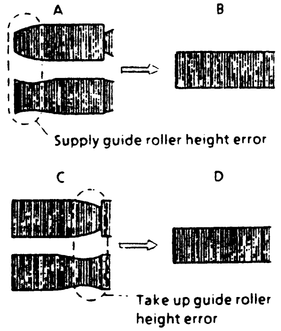
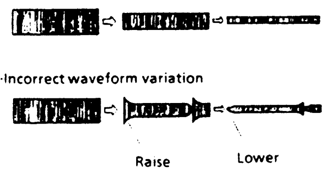
Fig. 2

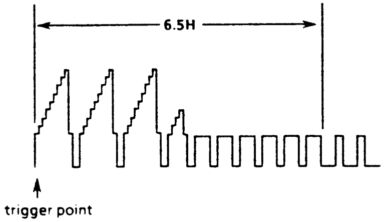
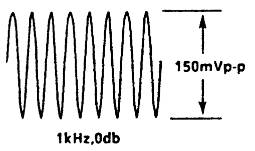
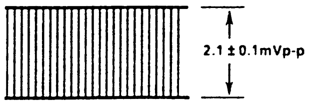
2. CHECKING OF THE HIGH VOLTAGE HOLD DOWN CIRCUIT.

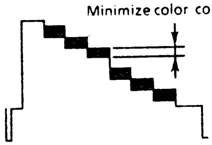
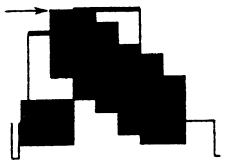
1) Make sure that the power SW is at OFF.
2) As shown in Fig. 2, set the resistor 14.7kΩ 1/4W to RB501 (between X1 connector and X3 connector).
3) Turn the power SW ON.
4) Make sure that the screen picture disappears.
5) Turn the power SW OFF.
6) Remove the resistor 14.7kΩ 1/4W from RB501 (between X1 connector and X3 connector).

■ ADJUSTING STEP (VIDEO SECTION)

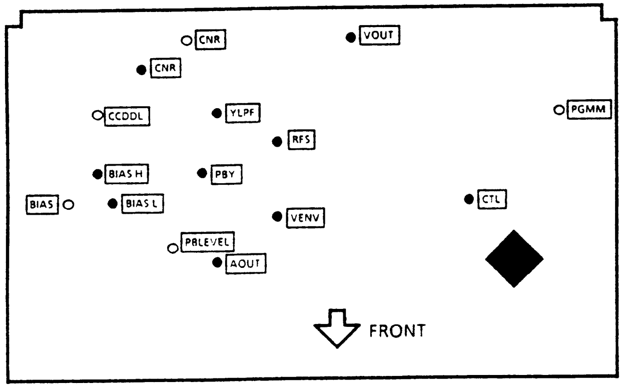
Item	Measuring instrument	Test point	Adjustment part	Description
AC HEAD HEIGHT TEMPORARY	■A/C head height temporary  			When replacing the A/C head assembly,set the head base height as shown in the figure.
AC HEAD TILT (FOWARD INCLINA--TION)	Oscilloscope Alignment tape(MH-1) Stairsteps ■TAPE, GUIDE POLE POSITION  Align the upper metal end of the guide pole with the upper edge of the tape. GUIDEPOLE	TP-203 A OUT	Adjust screw T	1. Transport a tape. 2. Adjust screw T to obtain the tape and guide pole position relationship shown in the figure. 3. Connect an oscilloscope to TP203. 4. Play the stairstep signal of the alignment tape (MH-1). 5. Adjust screw T for maximum waveform gain. ■A/C HEAD ADJUSTMENT SCREW POSITION 
AC HEAD HEIGHT	Oscilloscope Alignment tape(MH-1) Stairsteps	TP-203 A OUT	Adjust screw H	1. Connect an oscilloscope to TP203. 2. Play the stairstep signal of the alignment tape (MH-1). 3. Adjust screw H for maximum waveform gain.
AC HEAD AZIMUTH	Oscilloscope Alignment tape(MH-1) Stairsteps	TP-203 A OUT	Adjust screw A	1. Connect an oscilloscope to TP203. 2. Play the stairstep signal of the alignment tape (MH-1). 3. Adjust screw A for maximum waveform gain.
AC HEAD PHASE	Oscilloscope Alignment tape(MH-1) Stairsteps Alignment tape(MH-1L) Stairsteps ■A/C HEAD ADJUSTMENT SCREW POSITION  	TP-102PBY TP-103RFS	Adjust screw X	1. Connect ch1 of a dual-trace oscilloscope to TP102 and ch2 to TP103. 2. Turn screw X to position the AC head fully toward thedrum. 3. Play the stairstep signal of the alignment tape (MH-1). 4. Check the waveform of ch1.(trigger:ch2) 5. Simultaneously press the channel +/- key of TV to release the auto tracking. 6. Adjust screw X for maximam level of FM waveform. (Return AC head to the capstan side.) 7. Play the stairstep signal of the alignment tape (MH-1L). 8. Simultaneously press the channel +/- key of TV to release the auto tracking. 9. Adjust screw X for maximam level of FM waveform. ■Trucking adjust  ▸Auto tracking release Simultaneously press the channel +/- key ▸Tracking adjust Release the auto tracking,then adjust by pressing and holding the channel + or - key. ▸Auto tracking resume Change from play to another mode(eject,pause ff etc),then return to play.Auto tracking will resume automatically.

Item	Measuring instrument	Test point	Adjustment part	Description
SUPPLY AND TAKE-UP POLES ■Supply and take-up guide poles  ■図1  A B Supply guide roller height error C D Take up guide roller height error ■図2 ·Correct waveform variation;continuously flat ·Incorrect waveform variation  	**Oscilloscope** **Alignment tape(MH-1) Stairsteps**	**TP-102PBY** **TP-103RFS**	**Adjust screw X**	1. Connect ch1 of a dual-trace oscilloscope to TP102 and ch2 to TP103. 2. Turn screw X to position the AC head fully toward thedrum. 3. Play the stairstep signal of the alignment tape (MH-1). 4. Operate the tracking and adjust for the optimum point.Confirm the FM waveform is flat and without obvious level loss. If necessary,perform the following adjustment. 5. As shown in fig.1,if level less is observed at the left edge of the FM waveform,use the roller driver (PTU94002) to turn the supply pole base guide roller and adjust for a flat waveform. 6. Conversely,if loss occurs at the right end,adjust the take-up pole base guide roller and adjust for a flat waveform. 7. Operate the tracking and vary the Fm waveform variation is parallel and linear as shown in fig.2.(If the FM waveform varies in a seesaw type manner.the supply guide roller height is incorrect.i.e.,the tape does not currectly follow the drum lead plane at the drum intake.) 8. Remove the alignment tape,then reinsert it and play the stairstep signal. Fine adjust the guide roller heifht so that the variation is parallel and flat throught variation is parallel and linear. 9. Since the guide roller position can move during adjustment,repetedly operate stop and play to check the waveform. After adjusting,if the guide roller can be turned by hand.tighten the setscrew at the buttom of the pole base (use care not to tighten excessively). 10. After adjusting, confirm tape wrinkling or curling does not occur at the guide roller.

Item	Measuring instrument	Test point	Adjustment part	Description
PB switchingpoi nt ■TP108 VOUT waveform  	**Oscilloscope** **Alignment tape(MH-1) Stairsteps**	**TP-103RFS** **TP-108** **VOUT**	**PB SWITCHING POINT ADJUST. (VR001 PGMM)**	1. Connect channel 1 of the oscilloscope to TP108 and channel 2 to TP103. 2. Trigger externally with channel 2 and observe channel 1. 3. Play the stairstep signal of the aligbment tape. 4. Adjust VR001 to position the trigger point 6.5H from the falling edge of the vertical sync signal.
AUDIO PB LEVEL ■TP203 AOUT waveform  	**Oscilloscope** **Alignment tape(MH-1) COLOR BARS**	**TP-203** **AOUT**	**AUDIO PB LEVEL ADJUSTMENT (VR202 PB LEVEL)**	1. Connect the oscilloscope to TP203. 2.. Play the color bar signal of the aligbment tape. 3. Adjust VR202 to set the signal amplitude to 105mvp-p.
AUDIO REC bias ■REC bias waveform  	**Oscilloscope** **blank tape**	**TP-201** **BIASH** **TP-202** **BIASL**	**AUDIO REC bias adjustment (VR201 BIAS)**	1. Connect the oscilloscope probe to TP201 and GND to TP202. 2. Without connecting an input,select external input by pressing the input select key. 3. Insert a blank tape and begin recording. 4. Adjust VR201 to set the signal amplitude to 2.1 ± 0.1mVp-p.

Item	Measuring Instrument	Test point	Adjustment part	Description
COMB FILTER	Oscilloscope NTSC SIGNAL GENERATOR ■TP106 YLPF waveform  Minimize color comp.	TP-106 YLPF	COMB FILTER ADJUSTMENT (VR101 CCDDL)	1. Connect oscilloscope to TP106. 2. Supply a color bar signal to the mainframe external input and press the external input select key. 3. Adjust VR101 to minimize the color signal component amplitude.
CNR	Oscilloscope Alignment tape(MH-1) COLOR BAR ■TP108 VOUT waveform  Align yellow signal peak with 100% white	TP-108 VOUT	CNR ADJUSTMENT (VR102 CNR	1. Connect oscilloscope to TP108. 2. Play the COLOR BAR signal of the aligbment tape. 4. Adjust VR002 to set the color signal amplitude as indicated in the figure.

■VIDEO SECTION ADJ. TEST POINTS AND VR POSITIONS



● = TP
○ = VR

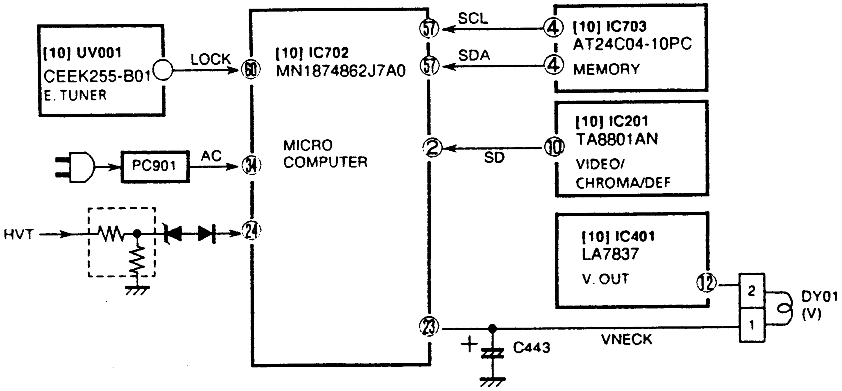
SERVICE PROCEDURES

■ SELF CHECK FUNCTIONS

1. OUTLINE

This model includes self check functions for checking circuit operating states and in event of malfunction , display and store the relevant data in memory. The data are displayed on-screen and by LED indication. Faults are detected according to the input states of control lines connected to the CPU.

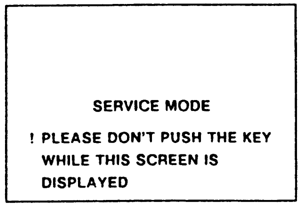
◆ SYSTEM CONNECTION ◆



2. USAGE

1) Self check display mode entry
(1) Press the [MENU] key.
(2) Select "Set Clock".
(3) Set to 3:21 AM.
(4) Press the [MUTE] key.
(5) Press the [MENU ▽/△] keys to obtain the service mode screen indicated in Fig. 1.
(6) After the service screen is displayed(about 5 seconds), press the [MENU ▽/△ or < / ➔]keys to produce the service menu screen indicated in Fig. 2.
(7) Select "SELF CHECK" to produce the Fig. 3 self check display mode.

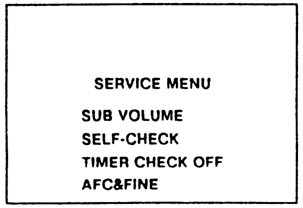
2) Releasing self check display mode
- To save the fault history :
  Press the main power switch of the TV mainframe to cut off the power and disconnect the power cord from the AC outlet.
- To erase(reset) the fault history :
  Press the remote controller power key to cut off the power.



SERVICE MODE

! PLEASE DON'T PUSH THE KEY
WHILE THIS SCREEN IS
DISPLAYED

Fig.1



SERVICE MENU

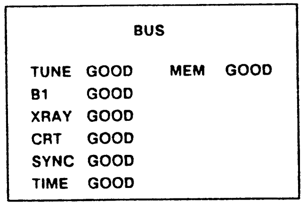
SUB VOLUME
SELF-CHECK
TIMER CHECK OFF
AFC&FINE

Fig.2

3) Fault history
The fault history counts the incidences per item up to 9 times. If 9 times are exceeded, the count remains at 9. Unless erased, the fault history remains in the memory.

Note : The sync(sync signal presence or absence) history is not counted.

4) Operation note
In addition to a circuit malfunction (faulty operation), pulse or other type interference can be interpreted as a fault, resulting in an X display or count. therefore, if X is displayed for many items, diagnosis can be impeded. In cases where symptoms are expected to recur periodically, reset the fault history to allow storing new diagnostic results.



BUS

TUNE	GOOD	MEM	GOOD
B1	GOOD		
XRAY	GOOD		
CRT	GOOD		
SYNC	GOOD		
TIME	GOOD		

Fig.3 (Self check display mode)

3. CONTENTS

Self check is performed regarding the items indicated in the table.

Check item	Display name	Contents(check location)	Check signal(line)	Detection method
MEMORY	MEM	Normal memory read /write operation [IC703 AT24C06-10PC]	SDA	Special pattern written into specific address at factory is readout and compared.
TUNER	TUN	Normal tuner operation [UV001 CEEK255-B01]	LOCK	Check for lock signal produced within a fixed time period(350ms) during channel selection.
CRT NECK PROTECTION	CRT	Vertical deflection operation	V. S. COR. VOLTAGE	Detection starts 5 seconds after main power on and sub power on. Error interpreted if faulty pulse input for more than 1ms.
SYNC SIGNAL PRESENCE OR ABSENCE	SYNC	Presence or absence of video(sync) signal input [IC201 TA8801AN]	SD	Check for high potential from IC SD output pin after the self check display mode. * Pressing the picture display key erases(resets) the fault history.
X RAY PROTECTION	X RAY	Xray protector circuit operation	B1 VOLTAGE	Detection starts 5 seconds after main power on and sub power on. Error interpreted if faulty pulse input for more than 1ms.
TIMER	TIM	Power supply frequency fluctuation(change)	AC	AC pulse counted periodically. Except for directly after CPU reset, Power supply frequency change from 50 to 60Hz, or from 60 to 50 Hz is checked during operation.

- In states where a raster is not produced due to set malfunction, the on timer LED flashes to indicate the fault mode as indicated in the table. The cause is stored and displayed in cases when the power supply is cutoff during a malfunction.

Check item	LED flashing interval
XRAY PROTECTION	0.1 second
CRT NECK PROTECTION	2 seconds

PURITY, CONVERGENCE AND WHITE BALANCE

* The locations of SERVICE SWITCH, SCREEN VR, CUT-OFF VR and DRIVE VR are described in the ALIGNMENT LOCATION of SERVICE ADJUSTMENT or the SCHEMATIC DIAGRAM.

PICTURE TUBE

The picture tube is a precision in-line gun type. For this picture tube, dynamic convergence is carried out by a precision deflection yoke which eliminated the use of convergence yoke and convergence circuit. The adjustment of picture tube is therefore made easier as only the adjustment of static convergence by using a magnetic is enough. The deflection yoke and purity/convergency magnets assembly has been set at the factory and requires no field adjustments. However, should the assembly be accidentally jarred or tampered with, some or all adjustments may by necessary.

COLOR PURITY & VERTICAL CENTER

Loosen yoke retaining screw (Fig. B-1) . With a sharp knife cut between the picture tube and the wedge. Remove wedges completely and clean off dried adhesive from the picture tube. PAINT is used to lock the tabs of the purity/convergence magnet assembly in place (Fig. B-1) . The paint must be removed with the end of a screwdriver before any adjustments are attempted.

(As to models equipped with a magnet locking ring, beforehand loosen it.)

1. Select no signal UHF channel. (or Display a monochrome pattern)
2. Let the purity tabs come in line horizontally as is shown in Fig. B-2. A long tab should be in the same direction as the other short tab.
3. Move the yoke slowly backward.
4. Turn the GREEN CUT-OFF VR to maximum and the RED and BLUE CUT-OFF VRs to minimum. Then adjust the SCREEN VR so that the green band can be seen best. (Fig. B-3)
5. Rotate the two tabs in the opposite directions and with them kept at an angle, together in either direction so that the green band is centered on the picture tube.
6. Check the vertical center position by displaying a horizontal line. (Select the CUT-OFF SERVICE SWITCH from N to S and a HORIZONTAL LINE will appear.) Unless correct, bring it to the nearest center by rotating the two tabs, kept at an angle, together in either direction. (Fig. B-4)
7. Repeat steps 5 and 6 alternately until the green band and the vertical center come to the center.
8. Move the yoke slowly towards the bell of the tube so that the whole surface of the picture tube is filled with a green pure raster.
9. Turning RED or BLUE CUT-OFF VR to maximum and GREEN CUT-OFF VR to minimum, make sure of a red or blue pure raster.
10. Secure yoke retaining screw (do not install wedges at this time) .

(As to models equipped with a magnet locking ring, secure it and keep six magnets from moving even if it is touched slightly.)

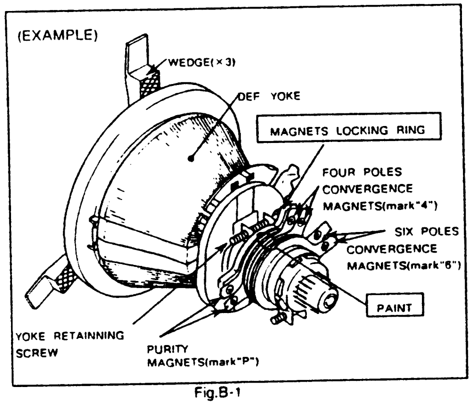
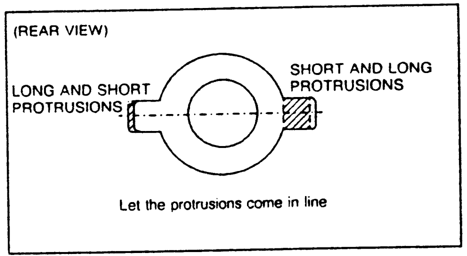
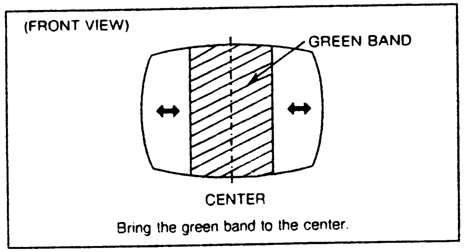

(EXAMPLE)
WEDGE(×3)
DEF YOKE
MAGNETS LOCKING RING
FOUR POLES CONVERGENCE MAGNETS(mark"4")
SIX POLES CONVERGENCE MAGNETS(mark"6")
PAINT
YOKE RETAINNING SCREW
PURITY MAGNETS(mark"P")

Fig.B-1


(REAR VIEW)
LONG AND SHORT PROTRUSIONS
SHORT AND LONG PROTRUSIONS

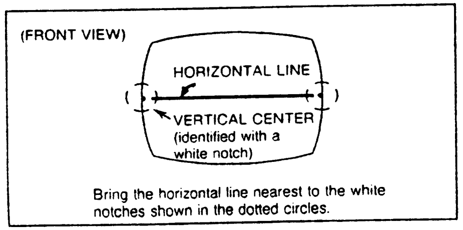
Let the protrusions come in line

Fig.B-2


(FRONT VIEW)
GREEN BAND
CENTER

Bring the green band to the center.

Fig.B-3


(FRONT VIEW)
HORIZONTAL LINE
VERTICAL CENTER (identified with a white notch)

Bring the horizontal line nearest to the white notches shown in the dotted circles.

Fig.B-4

STATIC CONVERGENCE & DYNAMIC CONVERGENCE

1. Connect a crosshatch generator to the input terminals and adjust BRIGHTNESS and CONTRAST control for a distinct pattern.
2. Adjust the convergence around the edges of the picture tube by tilting the yoke, up-down and left-right, and temporarily install one wedge at the top of the yoke. (Fig. B-7, 8, 9)
3. Rotate the front pair of tabs (four pole convergence magnet) as a unit to minimize the separation of the red and blue lines around the center of the screen. To adjust the convergence of red and blue, vary the angle between the tabs (Fig. B-5)
4. Rotate the rear pair of tabs (six pole convergence magnets) as a unit to minimize the separation of the magenta (R/B) and green lines. (Fig. B-6)
5. Adjust the spacing of the rear tabs to converge the magenta and green lines.
6. Apply paint to fix six magnets.
   (As to models equipped with a magnet locking ring, tighten it.)
7. Remove the wedge installed temporarily on the yoke.
8. Tilting the angle of the yoke up, down and sideways, and adjust the yoke so as to obtain the circumference convergence. (Fig. B-8, 9)
9. Insert wedges to the position as shown in Fig. B-10 to obtain the best circumference convergence.
10. Wedge has a backing of double sided adhesive tape. Therefor, tear off one side of adhesive tape, and fix the wedges.
11. White balance adjustment (Black & White tracking) can now be performed.

WHITE BALANCE ADJUSTMENT
(Black and White Tracking)

1. Display a monochrome pattern.
2. Set the RED and GREEN DRIVE VRs for their mechanical center.
3. Turn the RED, GREEN and BLUE CUT-OFF VRs and the SCREEN VR fully counterclockwise.
4. Display a horizontal line. (Select the CUT-OFF SERVICE SWITCH from N to S and a HORIZONTAL LINE will appear.)
5. Turn SCREEN VR slowly clockwise until a very faint horizontal line appears.
6. Turn the CUT-OFF VR of the color which has appeared first, clockwise by about 10°and then adjust the SCREEN VR again so that the color may shine faintly.
7. Turn the other color CUT-OFF VRs slowly clockwise until a reasonable white line appears.
8. Return the monochrome pattern. (When returning a monochrome pattern select the CUT-OFF SERVICE SWITCH from S to N and a monochrome pattern will appear.)
9. Adjust the RED and GREEN DRIVE VRs for best white highlights.

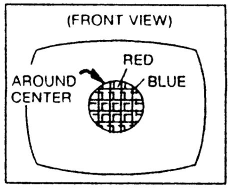

(FRONT VIEW)
RED
BLUE
AROUND CENTER

Fig.B-5

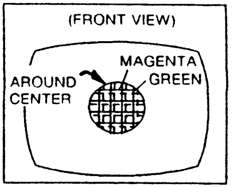

(FRONT VIEW)
MAGENTA
GREEN
AROUND CENTER

Fig.B-6

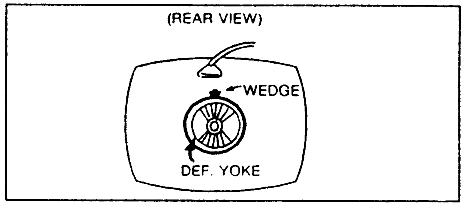
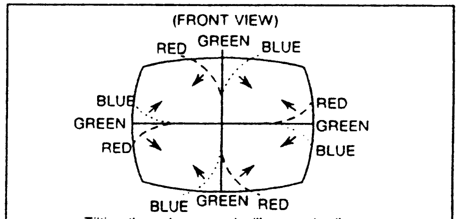
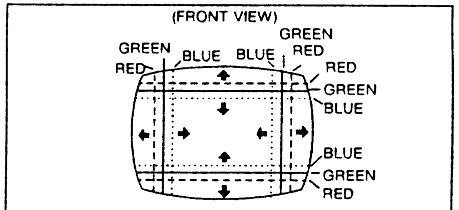

(REAR VIEW)
WEDGE
DEF. YOKE

Fig.B-7


(FRONT VIEW)
RED
GREEN
BLUE
BLUE
GREEN
RED
RED
GREEN
BLUE
BLUE
GREEN
RED

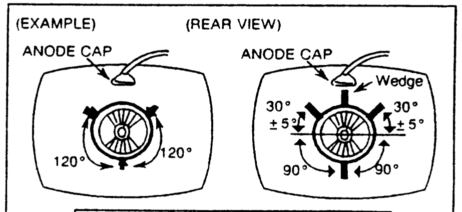
Tilting the yoke upward will move the lines as shown with the arrows.

Fig.B-8


(FRONT VIEW)
GREEN
RED
BLUE
BLUE
GREEN
RED
RED
GREEN
BLUE
BLUE
GREEN
RED

Tilting the yoke to the right will move the lines as shown with the arrows.

Fig.B-9


(EXAMPLE)
(REAR VIEW)
ANODE CAP
120°
120°
ANODE CAP
Wedge
30° ±5°
30° ±5°
90°
90°

Fix the wedges at the original position.

Fig.B-10

TV-C2026(U/C)/TV-C2126(LA)STANDARD CIRCUIT DIAGRAM

■NOTE ON USING CIRCUIT DIAGRAMS

1.SAFETY

The components identified by the ⚠ symbol and shading are critical for safety. For continued safety replace safety critical components only with manufactures recommended parts.

2.SPECIFIED VOLTAGE AND WAVEFORM VALUES

The voltage and waveform values have been measured under the following conditions.

(1)Input signal	:Color bar signal
(2)Setting positions of each knob/button and variable resistor	:Original setting position when shipped
(3)Internal resistance of tester	:DC 20kΩ/V
(4)Oscilloscope sweeping time	:H ⇒20μS/div :V ⇒5mS/div :Others ⇒ Sweeping time is specified
(5)Voltage values	:All DC voltage values

* Since the voltage values of signal circuit vary to some extent according to adjustments, use them as reference values.

3.INDICATION OF PARTS SYMBOL[EXAMPLE]

- In the PW board :R1209→R209

4.INDICATIONS ON THE CIRCUIT DIAGRAM

(1)Resistors

- Resistance value

No unit	:[Ω]
K	:[KΩ]
M	:[MΩ]

- Rated allowable power

No indication	:1/6[W]
Others	:As specified

- Type

No indication	:Carbon resistor
OMR	:Oxide metal film resistor
MFR	:Metal film resistor
MPR	:Metal plate resistor
UNFR	:Uninflammable resistor
FR	:Fusible resistor

* Composition resistor 1/2 [W] is specified as 1/2S or Comp.

(2)Capacitors

- Capacitance value

1or higher	:[pF]
less than 1	:[μF]

- Withstand voltage

No indication	:DC50[V]
Others	:DC withstand voltage[V]
AC indicated	:AC withstand voltage[V]

* Electrolytic Capacitors
47/50[Example]:Capacitance value[μF]/withstand voltage[V]

- Type

No indication	:Ceramic capacitor
MY	:Mylar capacitor
MM	:Metalized mylar capacitor
PP	:Polypropylene capacitor
MPP	:Metalized polypropylene capacitor
MF	:Metalized film capacitor
TF	:Thin film capacitor
BP	:Bipolar electrolytic capacitor
TAN	:Tantalum capacitor

(3)Coils

No unit	:[μH]
Others	:As specified

(4)Power Supply

══════	:B1(130.0V)
▬▬▬▬	:B2(12V)
▬▭▬▭	:9V
▭▭▭▭	:5V

* Respective voltage values are indicated.

(5)Test Point

⦿	: Test point
○	: Only test point display

(6)Connecting method

□	: Connector
○	: Wrapping or soldering
→>— —→>—	: Receptacle

(7)Ground symbol

⊥	: LIVE side ground
⏚	: ISOLATED(NEUTRAL) side ground
⏚	: EARTH ground
▽	: DIGITAL ground

5.NOTE FOR REPAIRING SERVICE

This model's power circuit is partly different in the GND. The difference of the GND is shown by the LIVE (primary : ⊥) side GND and the ISOLATED (neutral : ⏚) side GND. Therefore, care must be taken for the following points.

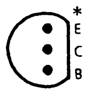
(1) Do not touch the LIVE side GND or the LIVE side GND and the ISOLATED side GND simultaneously. If the above caution is not respected, an electric shock may be caused. Therefore, make sure that the power cord is surely removed from the receptacle when, for example, the chassis is pulled out.

(2) Do not short between the LIVE side GND and ISOLATED side GND or never measure with a measuring apparatus (oscilloscope, etc.) the LIVE side GND and ISOLATED side GND at the same time. If the above precaution is not respected, a fuse or any parts will be broken.

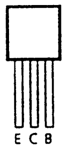
◇ Since the circuit diagram is a standard one, the circuit and circuit constants may be subject to change for improvement without any notice.

SEMICONDUCTOR SHAPES (* = Bottom view)

TRANSISTORS



2SA562TM(Y)
2SC2655(Y)
2SC3616(MLK)
2SB941(P)
2SC4722(NP)
2SC1815(YG)
2SA966(0Y)-T



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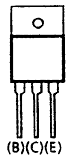

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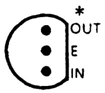

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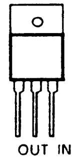

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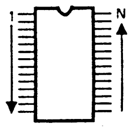

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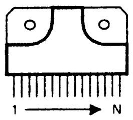

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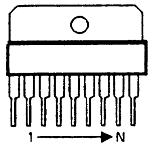

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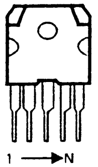

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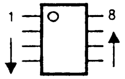

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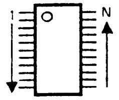

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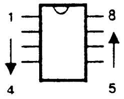

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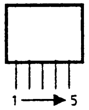


LA7213

CHANNEL CHART(US)

MODE		BAND	CHANNEL		TUNER BAND
TV	CATV		REAL	DISP.	
○	○	VL	02		I
			03		
			04		
			05		
			06		
		VH	07		II
			08		
			09		
			10		
			11		
			12		
			13		
×	○	MID	A	14	I
			B	15	
			C	16	II
			D	17	
			E	18	
			F	19	
			G	20	
			H	21	
			I	22	
		SUPER	J	23	
			K	24	
			L	25	
			M	26	
			N	27	
			O	28	
			P	29	
			Q	30	
			R	31	
			S	32	
			T	33	
			U	34	
			V	35	
			W	36	
		HYPER	W + 1	37	
			W + 2	38	
			W + 3	39	
			W + 4	40	
			W + 5	41	
			W + 6	42	
			W + 7	43	
			W + 8	44	
			W + 9	45	
			W + 10	46	
			W + 11	47	
			W + 12	48	IV
			W + 13	49	
			W + 14	50	
			W + 15	51	
			W + 16	52	
			W + 17	53	
			W + 18	54	
			W + 19	55	
			W + 20	56	
			W + 21	57	
			W + 22	58	
			W + 23	59	
			W + 24	60	
			W + 25	61	
			W + 26	62	
			W + 27	63	
			W + 28	64	
		ULTRA	W + 29	65	
			W + 30	66	
			W + 31	67	
			W + 32	68	
			W + 33	69	
			W + 34	70	

MODE		BAND	CHANNEL		TUNER BAND
TV	CATV		REAL	DISP.	
×	○	ULTRA	W + 35	71	IV
			W + 36	72	
			W + 37	73	
			W + 38	74	
			W + 39	75	
			W + 40	76	
			W + 41	77	
			W + 42	78	
			W + 43	79	
			W + 44	80	
			W + 45	81	
			W + 46	82	
			W + 47	83	
			W + 48	84	
			W + 49	85	
			W + 50	86	
			W + 51	87	
			W + 52	88	
			W + 53	89	
			W + 54	90	
			W + 55	91	
			W + 56	92	
			W + 57	93	
			W + 58	94	
			W + 59	100	
			W + 60	101	
			W + 61	102	
			W + 62	103	
			W + 63	104	
			W + 64	105	
			W + 65	106	
			W + 66	107	
			W + 67	108	
			W + 68	109	
			W + 69	110	
			W + 70	111	
			W + 71	112	
			W + 72	113	
			W + 73	114	
			W + 74	115	
			W + 75	116	
			W + 76	117	
			W + 77	118	
			W + 78	119	
			W + 79	120	
			W + 80	121	
			W + 81	122	
			W + 82	123	
			W + 83	124	
			W + 84	125	
		SUB MID	A-8	01	I
			A-4	96	
			A-3	97	
			A-2	98	
			A-1	99	
○	×	UHF	14 ∫ 69		IV

TOTAL 180CH
{ VHF 124CH
{ UHF 56CH

NOTE;
TO RECEIVE THE SUBSCRIPTION OR PREMIUM PROGRAMMING FROM CERTAIN CABLE COMPANIES. SPECIAL ADAPTERS MAY BE REQUIED.

CHANNEL CHART(CA)

MODE		BAND	CHANNEL		TUNER BAND
TV	CATV		REAL	DISP.	
○	○	VL	02		I
			03		
			04		
			05		
			06		
		VH	07		II
			08		
			09		
			10		
			11		
			12		
			13		
×	○	MID	A	14	
			B	15	
			C	16	
			D	17	
			E	18	
			F	19	
			G	20	
			H	21	
			I	22	
		SUPER	J	23	
			K	24	
			L	25	
			M	26	
			N	27	
			O	28	
			P	29	III
			Q	30	
			R	31	
			S	32	
			T	33	
			U	34	
			V	35	
			W	36	
		HYPER	W + 1	37	
			W + 2	38	
			W + 3	39	
			W + 4	40	
			W + 5	41	
			W + 6	42	
			W + 7	43	
			W + 8	44	
			W + 9	45	
			W + 10	46	
			W + 11	47	
			W + 12	48	
			W + 13	49	
			W + 14	50	
			W + 15	51	
			W + 16	52	
			W + 17	53	
			W + 18	54	
			W + 19	55	
			W + 20	56	
			W + 21	57	
			W + 22	58	
			W + 23	59	
			W + 24	60	
			W + 25	61	
			W + 26	62	
			W + 27	63	
			W + 28	64	
		ULTRA	W + 29	65	
			W + 30	66	IV
			W + 31	67	
			W + 32	68	
			W + 33	69	
			W + 34	70	

MODE		BAND	CHANNEL		TUNER BAND
TV	CATV		REAL	DISP.	
×	○	ULTRA	W + 35	71	IV
			W + 36	72	
			W + 37	73	
			W + 38	74	
			W + 39	75	
			W + 40	76	
			W + 41	77	
			W + 42	78	
			W + 43	79	
			W + 44	80	
			W + 45	81	
			W + 46	82	
			W + 47	83	
			W + 48	84	
			W + 49	85	
			W + 50	86	
			W + 51	87	
			W + 52	88	
			W + 53	89	
			W + 54	90	
			W + 55	91	
			W + 56	92	
			W + 57	93	
			W + 58	94	
			W + 59	100	
			W + 60	101	
			W + 61	102	
			W + 62	103	
			W + 63	104	
			W + 64	105	
			W + 65	106	
			W + 66	107	
			W + 67	108	
			W + 68	109	
			W + 69	110	
			W + 70	111	
			W + 71	112	
			W + 72	113	
			W + 73	114	
			W + 74	115	
			W + 75	116	
			W + 76	117	
			W + 77	118	
			W + 78	119	
			W + 79	120	
			W + 80	121	
			W + 81	122	
			W + 82	123	
			W + 83	124	
			W + 84	125	
		SUB MID	A-8	01	I
			A-4	96	
			A-3	97	II
			A-2	98	
			A-1	99	
○	×	UHF	14 ∫ 69		IV

TOTAL 180CH
{ VHF 124CH
{ UHF 56CH

CHANNEL CHART(CA)

MODE		BAND	CHANNEL		TUNER BAND
TV	CATV		REAL	DISP.	
○	○	VL	02		I
			03		
			04		
			05		
			06		
		VH	07		II
			08		
			09		
			10		
			11		
			12		
			13		
×	○	MID	A	14	
			B	15	
			C	16	
			D	17	
			E	18	
			F	19	
			G	20	
			H	21	
			I	22	
		SUPER	J	23	
			K	24	
			L	25	
			M	26	
			N	27	
			O	28	
			P	29	III
			Q	30	
			R	31	
			S	32	
			T	33	
			U	34	
			V	35	
			W	36	
		HYPER	W+1	37	
			W+2	38	
			W+3	39	
			W+4	40	
			W+5	41	
			W+6	42	
			W+7	43	
			W+8	44	
			W+9	45	
			W+10	46	
			W+11	47	
			W+12	48	
			W+13	49	
			W+14	50	
			W+15	51	
			W+16	52	
			W+17	53	
			W+18	54	
			W+19	55	
			W+20	56	
			W+21	57	
			W+22	58	
			W+23	59	
			W+24	60	
			W+25	61	
			W+26	62	
			W+27	63	
			W+28	64	
		ULTRA	W+29	65	
			W+30	66	IV
			W+31	67	
			W+32	68	
			W+33	69	
			W+34	70	

MODE		BAND	CHANNEL		TUNER BAND
TV	CATV		REAL	DISP.	
×	○	ULTRA	W+35	71	IV
			W+36	72	
			W+37	73	
			W+38	74	
			W+39	75	
			W+40	76	
			W+41	77	
			W+42	78	
			W+43	79	
			W+44	80	
			W+45	81	
			W+46	82	
			W+47	83	
			W+48	84	
			W+49	85	
			W+50	86	
			W+51	87	
			W+52	88	
			W+53	89	
			W+54	90	
			W+55	91	
			W+56	92	
			W+57	93	
			W+58	94	
			W+59	100	
			W+60	101	
			W+61	102	
			W+62	103	
			W+63	104	
			W+64	105	
			W+65	106	
			W+66	107	
			W+67	108	
			W+68	109	
			W+69	110	
			W+70	111	
			W+71	112	
			W+72	113	
			W+73	114	
			W+74	115	
			W+75	116	
			W+76	117	
			W+77	118	
			W+78	119	
			W+79	120	
			W+80	121	
			W+81	122	
			W+82	123	
			W+83	124	
			W+84	125	
		SUB MID	A-8	01	I
			A-4	96	
			A-3	97	II
			A-2	98	
			A-1	99	
○	×	UHF	14 ≀ 69		IV

TOTAL 180CH
{ VHF 124CH
UHF 56CH

CHANNEL CHART(LA)

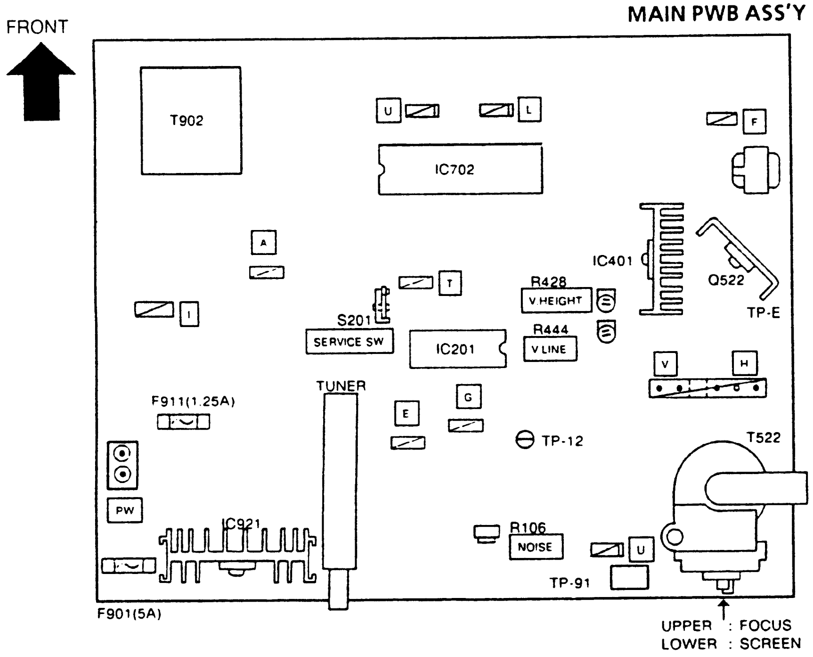
MODE		BAND	CHANNEL		TUNER BAND
TV	CATV		REAL	DISP.	
○	○	VL	02		I
			03		
			04		
			05		
			06		
		VH	07		II
			08		
			09		
			10		
			11		
			12		
			13		
×	○	MID	A	14	I
			B	15	
			C	16	II
			D	17	
			E	18	
			F	19	
			G	20	
			H	21	
			I	22	
		SUPER	J	23	
			K	24	
			L	25	
			M	26	
			N	27	
			O	28	
			P	29	
			Q	30	
			R	31	
			S	32	
			T	33	
			U	34	
			V	35	
			W	36	
		HYPER	W+1	37	
			W+2	38	
			W+3	39	
			W+4	40	
			W+5	41	
			W+6	42	
			W+7	43	
			W+8	44	
			W+9	45	
			W+10	46	
			W+11	47	
			W+12	48	IV
			W+13	49	
			W+14	50	
			W+15	51	
			W+16	52	
			W+17	53	
			W+18	54	
			W+19	55	
			W+20	56	
			W+21	57	
			W+22	58	
			W+23	59	
			W+24	60	
			W+25	61	
			W+26	62	
			W+27	63	
			W+28	64	
		ULTRA	W+29	65	
			W+30	66	
			W+31	67	
			W+32	68	
			W+33	69	
			W+34	70	
			W+35	71	

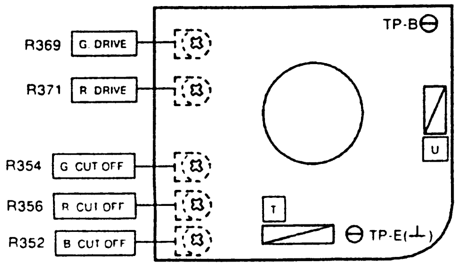
MODE		BAND	CHANNEL		TUNER BAND
TV	CATV		REAL	DISP.	
×	○	ULTRA	W+36	72	IV
			W+37	73	
			W+38	74	
			W+39	75	
			W+40	76	
			W+41	77	
			W+42	78	
			W+43	79	
			W+44	80	
			W+45	81	
			W+46	82	
			W+47	83	
			W+48	84	
			W+49	85	
			W+50	86	
			W+51	87	
			W+52	88	
			W+53	89	
			W+54	90	
			W+55	91	
			W+56	92	
			W+57	93	
			W+58	94	
			W+59	100	
			W+60	101	
			W+61	102	
			W+62	103	
			W+63	104	
			W+64	105	
			W+65	106	
			W+66	107	
			W+67	108	
			W+68	109	
			W+69	110	
			W+70	111	
			W+71	112	
			W+72	113	
			W+73	114	
			W+74	115	
			W+75	116	
			W+76	117	
			W+77	118	
			W+78	119	
			W+79	120	
			W+80	121	
			W+81	122	
			W+82	123	
			W+83	124	
			W+84	125	
		SUB MID	A-8	01	I
			A-4	96	
			A-3	97	
			A-2	98	
			A-1	99	
○	×	UHF	14 ≀ 69		IV

TOTAL 180CH
{ VHF 124CH
UHF 56CH

MAIN PARTS LOCATION AND ALIGNMENT LOCATION

MAIN PWB ASS'Y


FRONT
T902
U
L
F
IC702
A
IC401
Q522
TP-E
T
R428
V HEIGHT
R444
V LINE
I
S201
SERVICE SW
IC201
V
H
F911(1.25A)
TUNER
E
G
TP-12
T522
PW
IC921
R106
NOISE
U
TP-91
F901(5A)
UPPER : FOCUS
LOWER : SCREEN

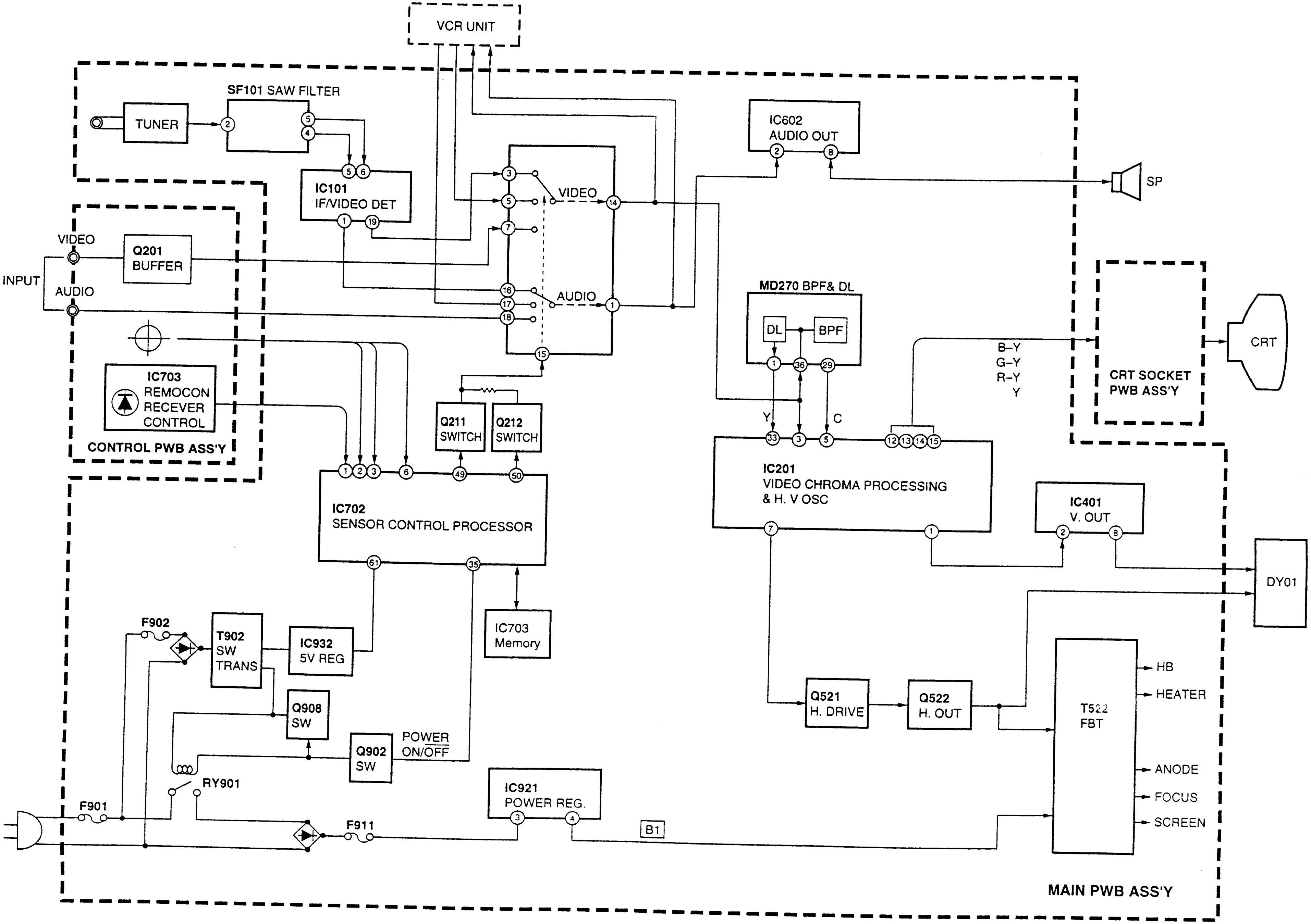

R369
G DRIVE
R371
R DRIVE
R354
G CUT OFF
R356
R CUT OFF
R352
B CUT OFF
TP-B
U
T
TP-E(⊥)
TOP

CRT SOCKET PWB ASS'Y
(SOLDER SIDE)

WIRING LIST

P.W.B. or PART NAME	CONNECTOR NAME	WIRING	CONNECTOR NAME	P.W.B. or PART NAME
MAIN PWB ASS'Y	T	←——→	T	CRT SOCKET PWB ASS'Y
MAIN PWB ASS'Y	U	←——→	U	CRT SOCKET PWB ASS'Y
MAIN PWB ASS'Y	I	←——→	WIRE	DEG. COIL
MAIN PWB ASS'Y	H	←——→	WIRE	DEF. YOKE
MAIN PWB ASS'Y	V	←——→	WIRE	DEF. YOKE
CONTROL PWB ASS'Y	S	←——→	WIRE	SPEAKER
MAIN PWB ASS'Y	PW	←——→	——	POWER CORD
MAIN PWB ASS'Y	F.G	←——→	F	CONTROL PWB ASS'Y
MAIN PWB ASS'Y	L	←——→	L	CONTROL PWB ASS'Y
CRT SOCKET PWB ASS'Y	CRT EARTH	←——→	EARTH WIRE	CRT
MAIN PWB ASS'Y	A	←——→	A	VCR UNIT
MAIN PWB ASS'Y	E	←——→	E	VCR UNIT
MAIN PWB ASS'Y	KJ	←——→	K	VCR UNIT

BLOCK DIAGRAM

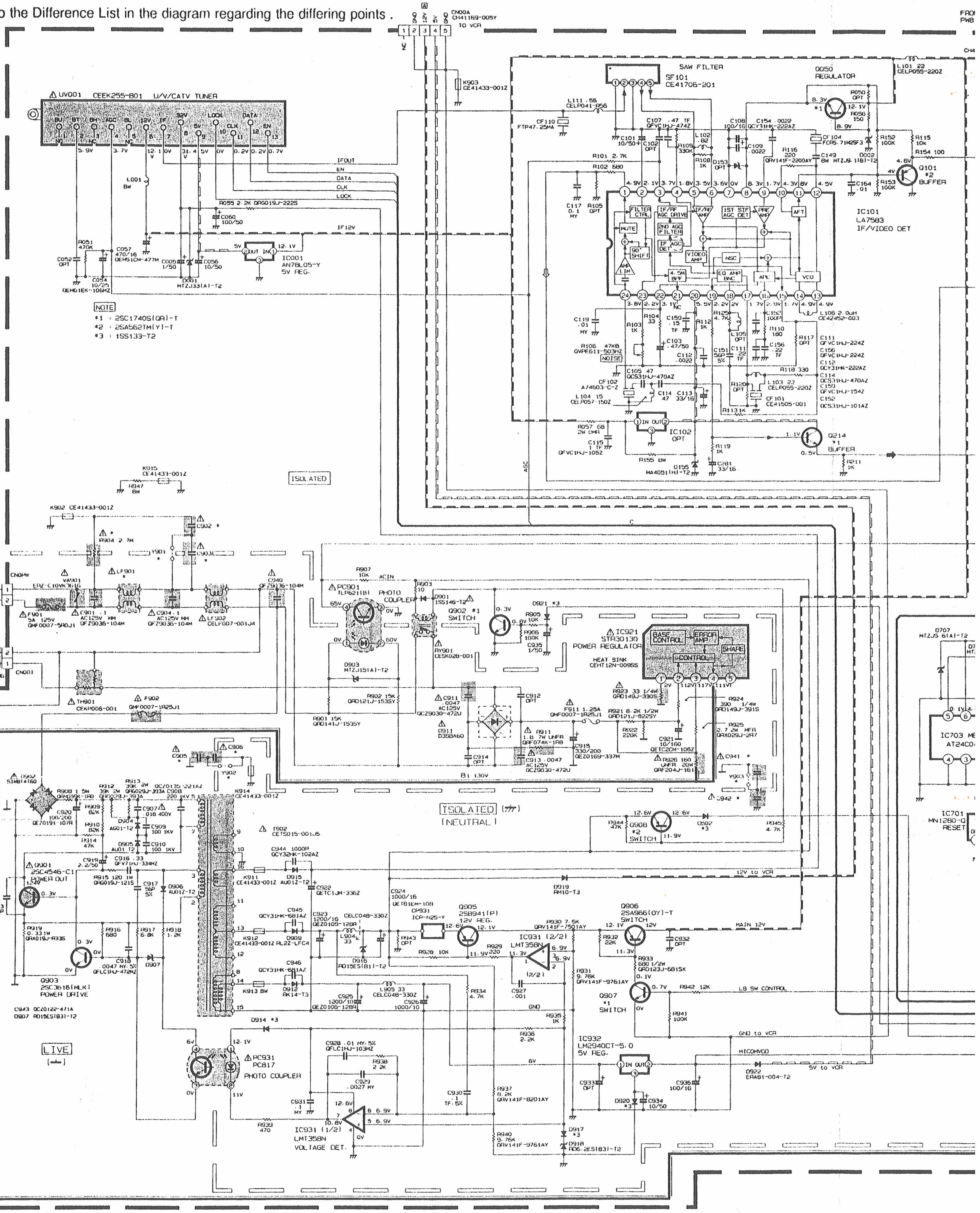

VCR UNIT
SF101 SAW FILTER
TUNER
IC101
IF/VIDEO DET
IC602
AUDIO OUT
SP
VIDEO
AUDIO
INPUT
VIDEO
AUDIO
Q201
BUFFER
IC703
REMOCON
RECEVER
CONTROL
CONTROL PWB ASS'Y
MD270 BPF& DL
DL
BPF
Y
C
B–Y
G–Y
R–Y
Y
CRT SOCKET
PWB ASS'Y
CRT
Q211
SWITCH
Q212
SWITCH
IC702
SENSOR CONTROL PROCESSOR
IC201
VIDEO CHROMA PROCESSING
& H. V OSC
IC401
V. OUT
DY01
IC703
Memory
F902
T902
SW
TRANS
IC932
5V REG
Q908
SW
Q902
SW
POWER
ON/OFF
RY901
F901
F911
IC921
POWER REG.
B1
Q521
H. DRIVE
Q522
H. OUT
T522
FBT
HB
HEATER
ANODE
FOCUS
SCREEN
MAIN PWB ASS'Y

CIRCUIT DIAGRAMS AND PWB PATTERNS

MAIN PWB, CRT SOCKET PWB, CONTROL PWB CIRCUIT DIAGRAMS

This schematic diagram applies to (US) , (CA) , (LA)models.

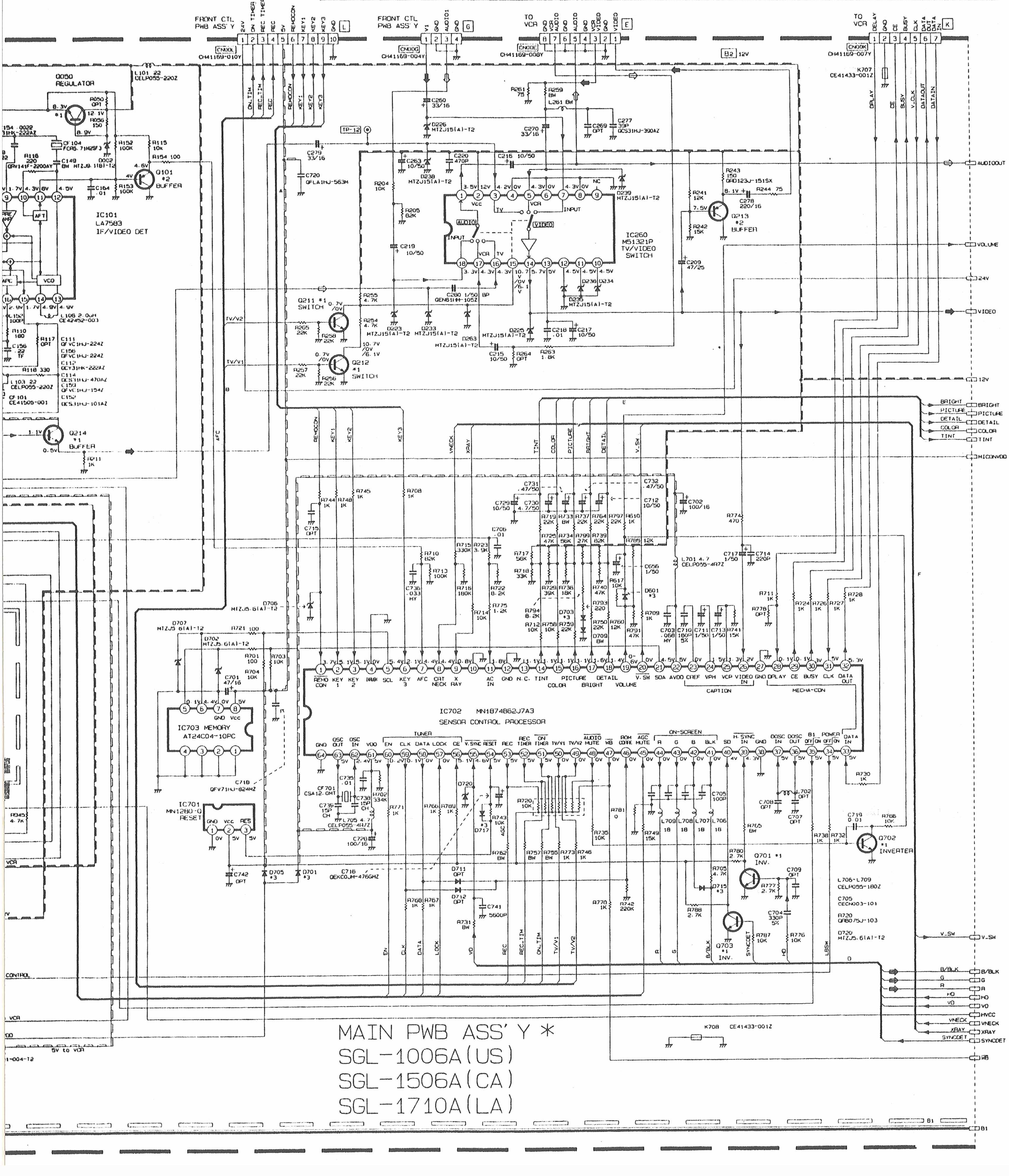
Refer to the Difference List in the diagram regarding the differing points .


CN00A CH41169-005Y TO VCR
NC
12V
5V
UV001 CEEK255-B01 U/V/CATV TUNER
SAW FILTER SF101 CE41706-201
Q050 REGULATOR
IC101 LA7583 IF/VIDEO DET
Q101 *2 BUFFER
IC001 AN78L05-Y 5V REG.
NOTE
*1 : 2SC1740S(QR)-T
*2 : 2SA562TM(Y)-T
*3 : 1SS133-T2
IC102 OPT
Q214 *1 BUFFER
ISOLATED
POWER CORD AC120V 60Hz QMP1490-170JG
F901 5A 125V
LF901
LF902
PC901 TLP621(B) PHOTO COUPLER
Q902 *1 SWITCH
IC921 STR30130 POWER REGULATOR
HEAT SINK CEHT12N-009SS
BASE CONTROL
ERROR AMP
CONTROL
SHARE
TH901 CEKP006-001
F902
D902 S1WBA60
ISOLATED (NEUTRAL)
Q908 *2 SWITCH
Q901 2SC4546-C1 POWER OUT
Q903 2SC3618(MLK) POWER DRIVE
T802 CET5015-001JS
12V to VCR
Q905 2SB941(P) 12V REG.
Q906 2SA966(OY)-T SWITCH
IC931 (2/2) LMT358N
MAIN 12V
Q907 *1 SWITCH
LB SW CONTROL
GND to VCR
MICOMVDD
5V to VCR
IC932 LM2940CT-5.0 5V REG.
LIVE
PC931 PC817 PHOTO COUPLER
IC931 (1/2) LMT358N VOLTAGE DET.
IC703
IC701 MN1280-Q RESET
FRONT PWB

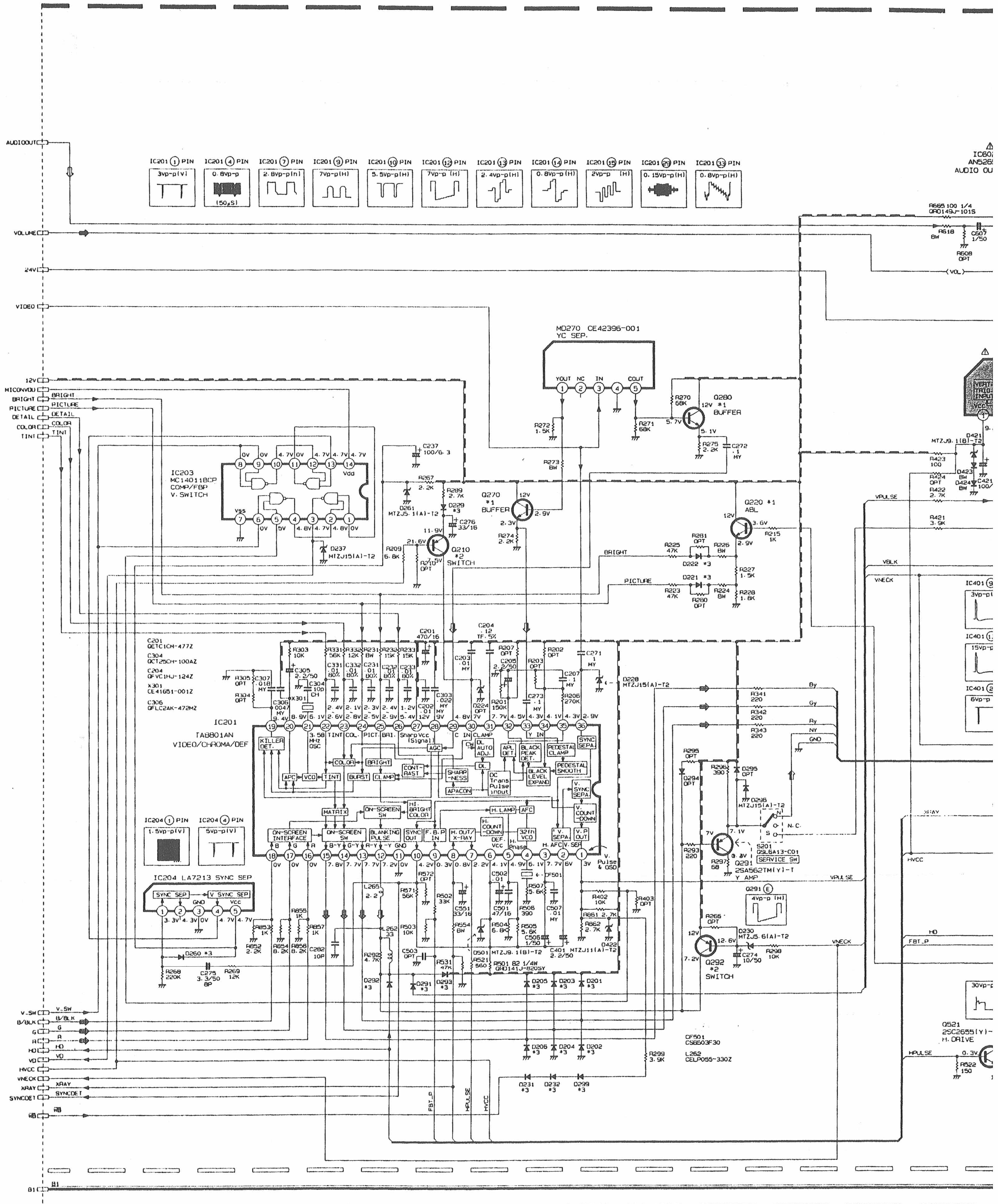
-C2026 TV-C2026
-C2126 TV-C2126

* DIFFERENCE LIST

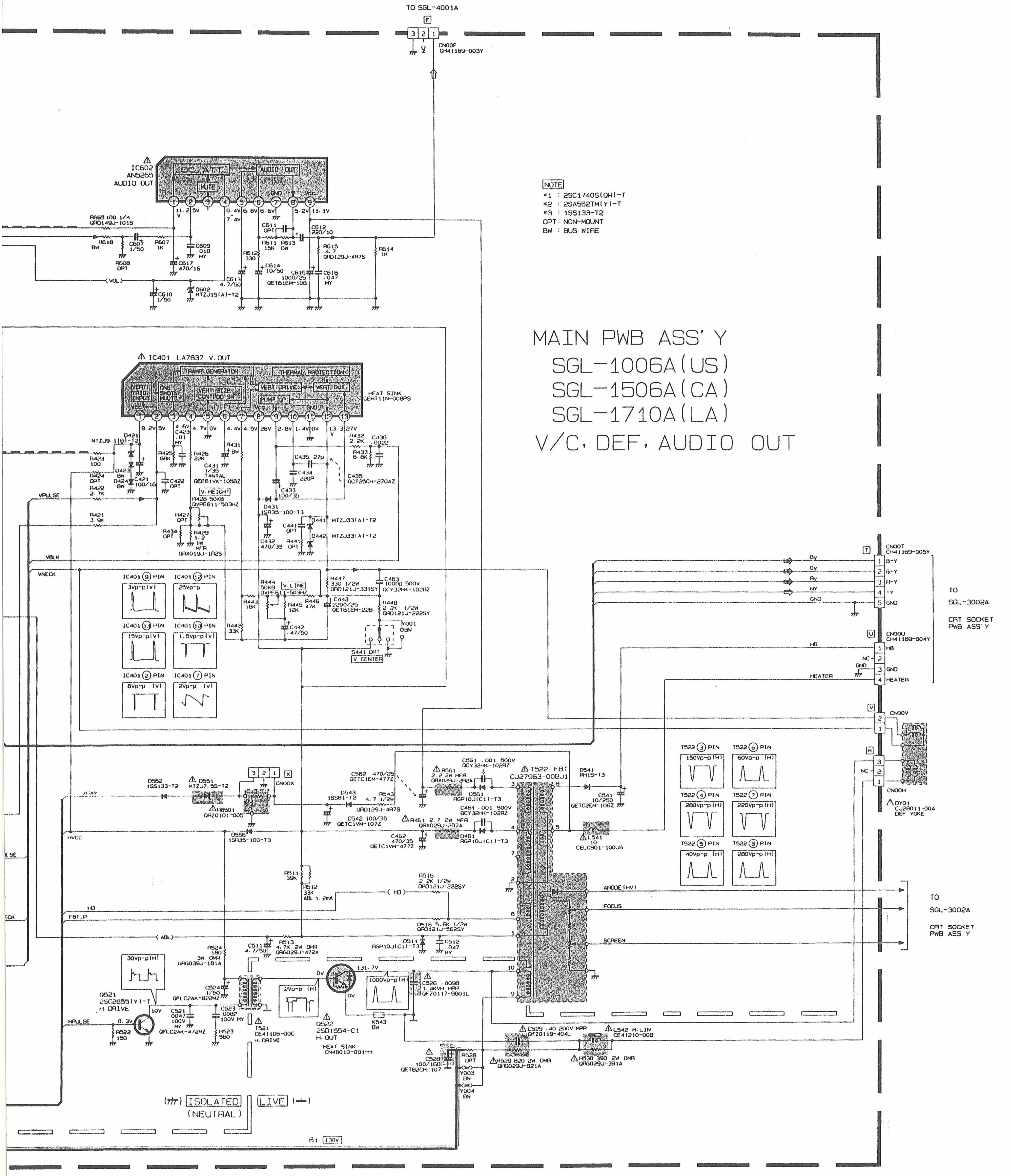
MODEL		PWB ASS' Y	⚠ R1904	⚠C1902	⚠ C1903	⚠C1905	⚠C1906	⚠C1941	⚠C1942	Y901	Y902	Y903	LF901
America models(US)	TV-C2026U	SGL-1006A	QRZ0111 -275U	QCZ9056 -332M	QCZ9056 -332M	QCZ9056 -332M	QCZ9056 -332M	QCZ9056 -332M	QCZ9056 -332M	———	———	———	CELF007 -001J4
Canada models(CA)	TV-C2026C	SGL-1506A	QRZ0111 -275	QCZ9056 -152M	———	QCZ9056 -152M	———	———	QCZ9056 -152M	BW	BW	BW	CELF007 -001J4
Mexico models(LA)	TV-C2126LA	SGL-1710A	QRZ0111 -275U	QCZ9056 -102M	QCZ9056 -102M	QCZ9056 -102M	QCZ9056 -102M	QCZ9056 -102M	QCZ9056 -102M	———	———	———	CE41506 -008


FRONT CTL PWB ASS' Y
24V
ON TIMER
REC TIMER
REC
5V
REMOCON
KEY1
KEY2
KEY3
GND
L
CN00L
CH41169-010Y
FRONT CTL PWB ASS' Y
V1
GND
AUDIO1
GND
G
CN00G
CH41169-004Y
TO VCR
VCR AUDIO
AUDIO
VCR VIDEO
VIDEO
E
CN00E
CH41169-008Y
B2 12V
TO VCR
DELAY
CE
BUSY
CLK
DATA OUT
DATA IN
K
CN00K
CH41169-007Y
K707
CE41433-001Z
Q050
REGULATOR
L101 22
CELP055-220Z
Q101
*2
BUFFER
IC101
LA7583
IF/VIDEO DET
AFT
VCO
Q214
*1
BUFFER
TP-12
IC260
M51321P
TV/VIDEO SWITCH
AUDIO
VIDEO
INPUT
VCR
TV
Q211 *1
SWITCH
Q212
*1
SWITCH
Q213
*2
BUFFER
AUDIOOUT
VOLUME
24V
VIDEO
12V
BRIGHT
PICTURE
DETAIL
COLOR
TINT
MICONVDD
IC702 MN1874862J7A3
SENSOR CONTROL PROCESSOR
REMO CON
KEY 1
KEY 2
SCL
KEY 3
AFC
CRT NECK
X RAY
AC IN
GND
N.C.
TINT
PICTURE
COLOR
DETAIL
BRIGHT
VOLUME
V.SW
SDA
AVDD
CREF
VPH
VCP
VIDEO IN
GND
DPLAY
CE
BUSY
CLK
DATA OUT
CAPTION
MECHA-CON
TUNER
ON-SCREEN
IC703 MEMORY
AT24C04-10PC
IC701
MN1280-Q
RESET
Q701 *1
INV.
Q702
*1
INVERTER
Q703
*1
INV.
L706-L709
CELP055-180Z
C705
CECN003-101
R720
QRB0/5J-103
D720
MTZJ5.6(A)-T2
V_SW
B/BLK
G
R
HD
VD
MVCC
VNECK
XRAY
SYNCDET
WB
B1
K708 CE41433-001Z
CONTROL
VCR
5V to VCR

MAIN PWB ASS' Y *
SGL-1006A(US)
SGL-1506A(CA)
SGL-1710A(LA)

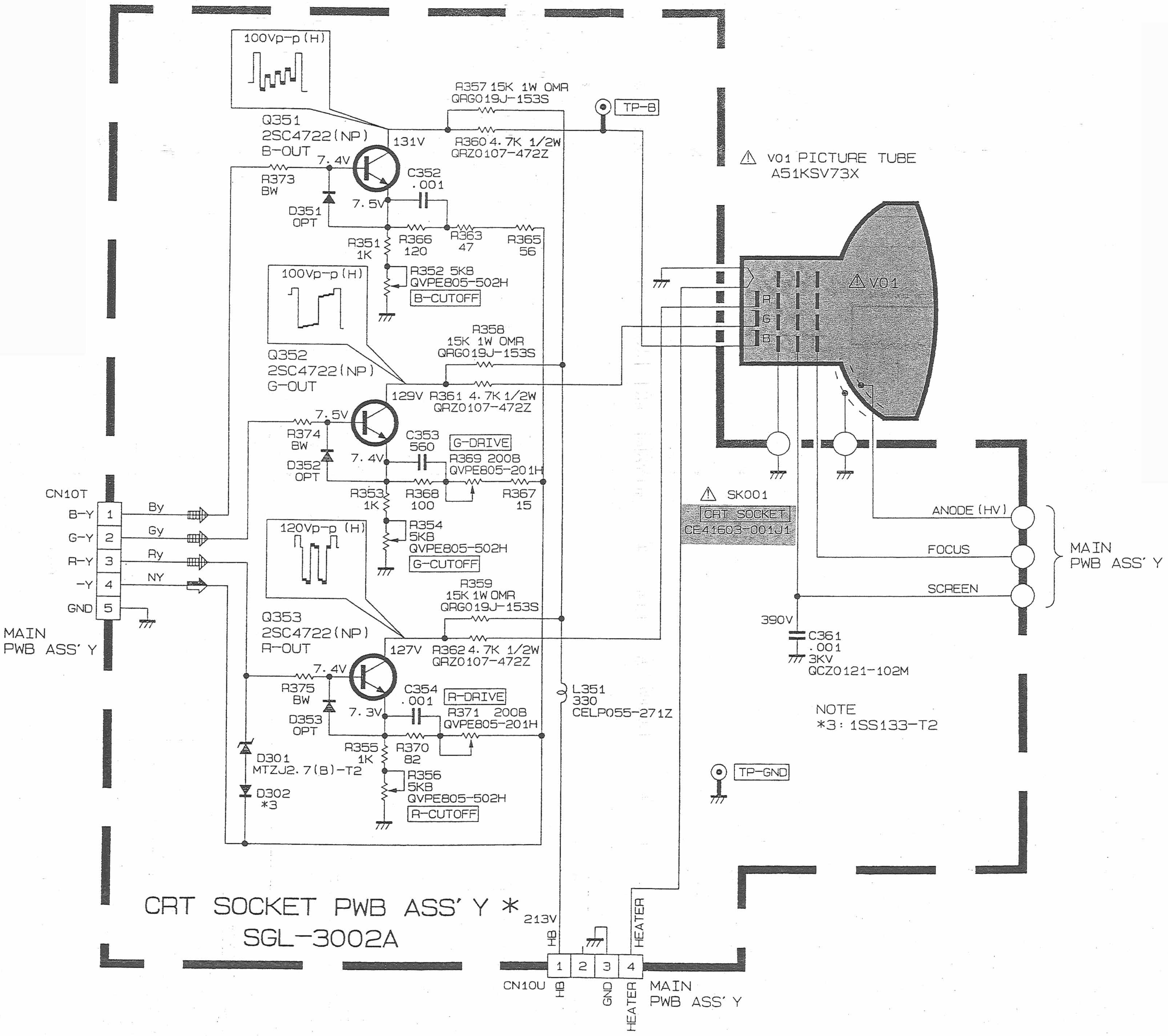

AUDIOOUT
VOLUME
24V
VIDEO
12V
MICONVDD
BRIGHT
PICTURE
DETAIL
COLOR
TINT
IC201 ① PIN 3vp-p(V)
IC201 ④ PIN 0.8vp-p (50μS)
IC201 ⑦ PIN 2.8vp-p(H)
IC201 ⑨ PIN 7vp-p(H)
IC201 ⑩ PIN 5.5vp-p(H)
IC201 ⑫ PIN 7vp-p (H)
IC201 ⑬ PIN 2.4vp-p(H)
IC201 ⑭ PIN 0.8vp-p (H)
IC201 ⑮ PIN 2vp-p (H)
IC201 ㉙ PIN 0.15vp-p(H)
IC201 ㉝ PIN 0.8vp-p(H)
MD270 CE42396-001 YC SEP.
YOUT NC IN COUT
Q280 *1 BUFFER
Q270 *1 BUFFER
Q220 *1 ABL
Q210 *2 SWITCH
IC203 MC14011BCP COMP/FBP V.SWITCH
IC201 TA8801AN VIDEO/CHROMA/DEF
KILLER DET.
APC
VCO
TINT
COLOR
BRIGHT
BURST
CLAMP
CONTRAST
SHARPNESS
APACON
AGC
DL AUTO ADJ.
DL
DC Trans Pulse input
APL DET
BLACK PEAK DET.
PEDESTAL CLAMP
PEDESTAL SMOOTH
BLACK LEVEL EXPAND
SYNC SEPA.
V. SYNC SEPA
V. COUNT -DOWN
MATRIX
ON-SCREEN SW
HI. BRIGHT COLOR
ON-SCREEN INTERFACE
BLANKING PULSE
SYNC OUT
F.B.P IN
H.OUT/ X-RAY
H.COUNT -DOWN
DEF. VCC
H.LAMP
AFC
32fh VCO
H. phase
H.AFC
V.SEPA
V.P OUT
IC204 ① PIN 1.5vp-p(V)
IC204 ④ PIN 5vp-p(V)
IC204 LA7213 SYNC SEP
SYNC SEP
V SYNC SEP
GND
Vcc
C201 QETC1CM-477Z
C304 QCT25CH-100AZ
C204 QFVC1HJ-124Z
X301 CE41651-001Z
C306 QFLC2AK-472MZ
Q291 2SA562TM(Y)-T Y AMP
S201 QSL6A13-C01 SERVICE SW
Q292 *2 SWITCH
CF501 CSB503F30
L262 CELP055-330Z
R501 82 1/4W QRD141J-820SY
IC602 AN5265 AUDIO OUT
R665 100 1/4 QRD149J-101S
Q521 2SC2655(Y)- H.DRIVE
V.SW
B/BLK
G
R
HD
VD
HVCC
VNECK
XRAY
SYNCDET
WB
B1
VPULSE
VBLK
HPULSE
FBT_P
By
Gy
Ry
NY
GND

Refer to the following PW Board pattern. : MAIN PWB PATTERN 2-27page,


MAIN PWB ASS' Y
SGL-1006A(US)
SGL-1506A(CA)
SGL-1710A(LA)
V/C, DEF, AUDIO OUT
NOTE
*1 : 2SC1740S(QR)-T
*2 : 2SA562TM(Y)-T
*3 : 1SS133-T2
OPT: NON-MOUNT
BW : BUS WIRE
TO SGL-4001A
CN00F CH41169-003Y
IC602 AN5265 AUDIO OUT
DC ATT
AUDIO OUT
MUTE
IC401 LA7837 V. OUT
RAMP GENERATOR
THERMAL PROTECTION
VERT. TRIG. INPUT
ONE SHOT MULTI
VERT. SIZE CONTROL SW
VERT. DRIVE
VERT. OUT
PUMP UP
HEAT SINK CEHT11N-008PS
V. HEIGHT
V. LINE
V. CENTER
VPULSE
VBLK
VNECK
IC401 ⑨ PIN 3Vp-p(V)
IC401 ⑫ PIN 25Vp-p
IC401 ⑬ PIN 15Vp-p(V)
IC401 ⑩ PIN 1.5Vp-p(V)
IC401 ② PIN 6Vp-p (V)
IC401 ⑦ PIN 2Vp-p (V)
CN00T CH41169-005Y
B-Y
G-Y
R-Y
-Y
GND
TO SGL-3002A CRT SOCKET PWB ASS' Y
CN00U CH41169-004Y
HB
NC
GND
HEATER
CN00V
CN00H
DY01 CJ28011-00A DEF YOKE
T522 FBT CJ27963-008BJ1
T522 ③ PIN 150Vp-p (H)
T522 ⑥ PIN 60Vp-p (H)
T522 ④ PIN 280Vp-p (H)
T522 ⑦ PIN 220Vp-p (H)
T522 ⑤ PIN 40Vp-p (H)
T522 ⑧ PIN 280Vp-p (H)
ANODE (HV)
FOCUS
SCREEN
TO SGL-3002A CRT SOCKET PWB ASS' Y
CN00X
HVCC
HD
FBT.P
ABL
HPULSE
Q521 2SC2655(Y)-T H. DRIVE
30Vp-p(H)
T521 CE41106-00C H. DRIVE
Q522 2SD1554-C1 H. OUT
HEAT SINK CM48010-001-H
2Vp-p (H)
1000Vp-p(H)
L542 H.LIN CE41210-00B
L541 10 CELC901-100JS
(⏚) ISOLATED (NEUTRAL)
LIVE (⏊)
B1 130V

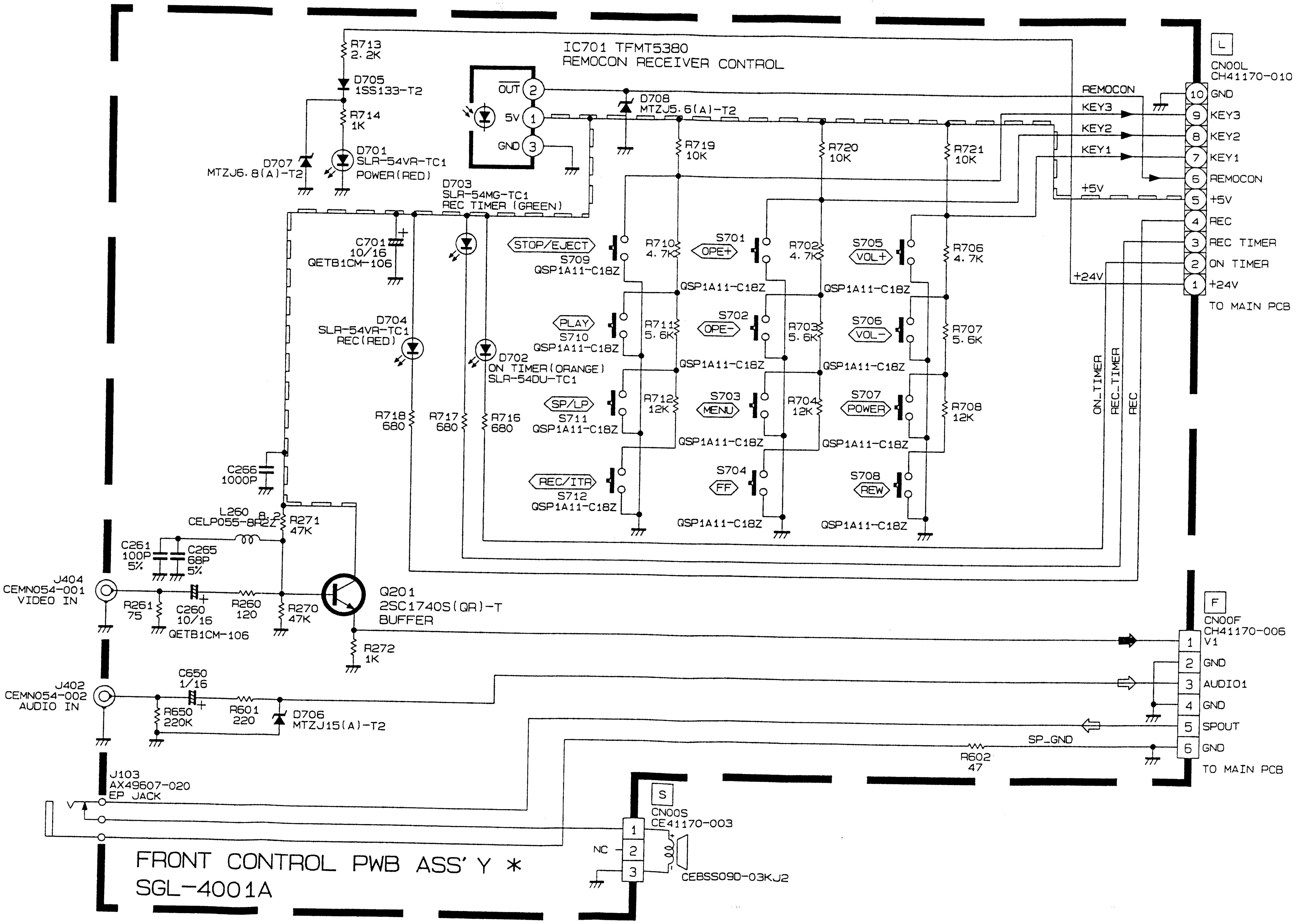
CRT SOCKET PWB,

Refer to the following PWB pattern. ; CRT SOCKET PWB PATTERN 2-29page,


100Vp-p (H)
R357 15K 1W OMR
QRG019J-153S
TP-B
Q351
2SC4722 (NP)
B-OUT
131V
R360 4.7K 1/2W
QRZ0107-472Z
7.4V
R373
BW
C352
.001
D351
OPT
7.5V
R351
1K
R366
120
R363
47
R365
56
100Vp-p (H)
R352 5K8
QVPE805-502H
B-CUTOFF
R358
15K 1W OMR
QRG019J-153S
Q352
2SC4722 (NP)
G-OUT
129V
R361 4.7K 1/2W
QRZ0107-472Z
7.5V
R374
BW
C353
560
G-DRIVE
D352
OPT
7.4V
R369 200B
QVPE805-201H
R353
1K
R368
100
R367
15
CN10T
B-Y 1 By
G-Y 2 Gy
R-Y 3 Ry
-Y 4 NY
GND 5
MAIN
PWB ASS' Y
120Vp-p (H)
R354
5K8
QVPE805-502H
G-CUTOFF
R359
15K 1W OMR
QRG019J-153S
Q353
2SC4722 (NP)
R-OUT
127V
R362 4.7K 1/2W
QRZ0107-472Z
7.4V
R375
BW
C354
.001
R-DRIVE
D353
OPT
7.3V
R371 200B
QVPE805-201H
R355
1K
R370
82
D301
MTZJ2.7(B)-T2
R356
5K8
QVPE805-502H
R-CUTOFF
D302
*3
L351
330
CELP055-271Z
⚠ V01 PICTURE TUBE
A51KSV73X
⚠ V01
R
G
B
⚠ SK001
CRT SOCKET
CE41603-001J1
ANODE (HV)
FOCUS
SCREEN
MAIN
PWB ASS' Y
390V
C361
.001
3KV
QCZ0121-102M
NOTE
*3 : 1SS133-T2
TP-GND
CRT SOCKET PWB ASS' Y *
SGL-3002A
213V
HB
HEATER
1 2 3 4
CN10U
HB
GND
HEATER
MAIN
PWB ASS' Y

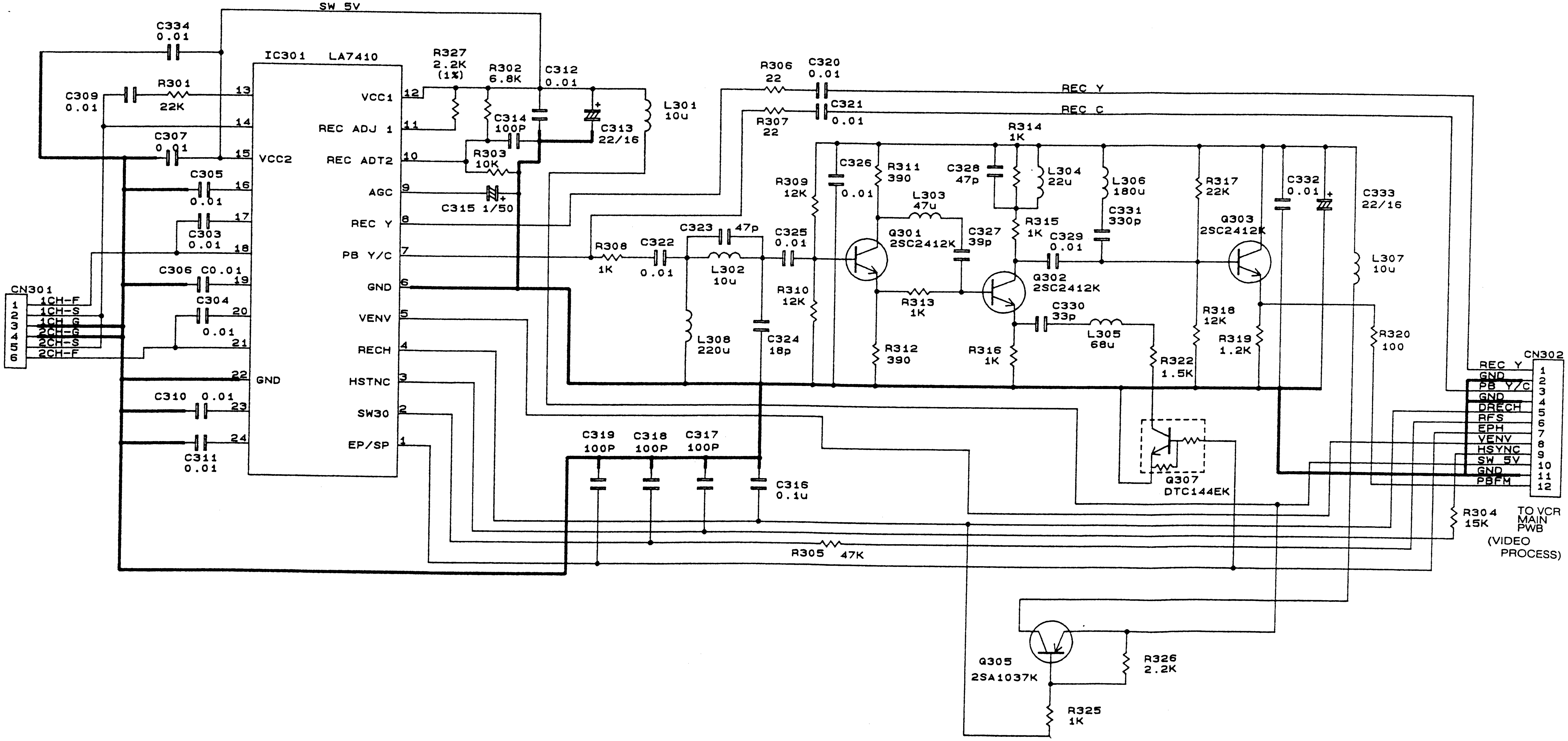
FRONT CONTROL PWB,

Refer to the following PW Board pattern. : FRONT CONTROL PWB PATTERN 2-29page.


R713 2.2K
D705 1SS133-T2
R714 1K
D707 MTZJ6.8(A)-T2
D701 SLR-54VR-TC1 POWER(RED)
IC701 TFMT5380 REMOCON RECEIVER CONTROL
OUT 2
5V 1
GND 3
D708 MTZJ5.6(A)-T2
D703 SLR-54MG-TC1 REC TIMER (GREEN)
C701 10/16 QETB1CM-106
R719 10K
R720 10K
R721 10K
STOP/EJECT S709 QSP1A11-C18Z
R710 4.7K
S701 OPE+
R702 4.7K
S705 VOL+
R706 4.7K
QSP1A11-C18Z
PLAY S710 QSP1A11-C18Z
R711 5.6K
S702 OPE−
R703 5.6K
S706 VOL−
R707 5.6K
SP/LP S711 QSP1A11-C18Z
R712 12K
S703 MENU
R704 12K
S707 POWER
R708 12K
REC/ITR S712 QSP1A11-C18Z
S704 FF
S708 REW
D704 SLR-54VR-TC1 REC(RED)
D702 ON TIMER(ORANGE) SLR-54DU-TC1
R718 680
R717 680
R716 680
C266 1000P
L260 8.2 CELP055-8R2Z
R271 47K
C261 100P 5%
C265 68P 5%
J404 CEMN054-001 VIDEO IN
R261 75
C260 10/16 QETB1CM-106
R260 120
R270 47K
Q201 2SC1740S(QR)-T BUFFER
R272 1K
J402 CEMN054-002 AUDIO IN
C650 1/16
R650 220K
R601 220
D706 MTZJ15(A)-T2
J103 AX49607-020 EP JACK
REMOCON
KEY3
KEY2
KEY1
+5V
+24V
ON_TIMER
REC_TIMER
REC
L
CN00L CH41170-010
10 GND
9 KEY3
8 KEY2
7 KEY1
6 REMOCON
5 +5V
4 REC
3 REC TIMER
2 ON TIMER
1 +24V
TO MAIN PCB
F
CN00F CH41170-006
1 V1
2 GND
3 AUDIO1
4 GND
5 SPOUT
6 GND
TO MAIN PCB
SP_GND
R602 47
S
CN00S CE41170-003
1
NC 2
3
CEBSS09D-03KJ2
FRONT CONTROL PWB ASS'Y *
SGL-4001A

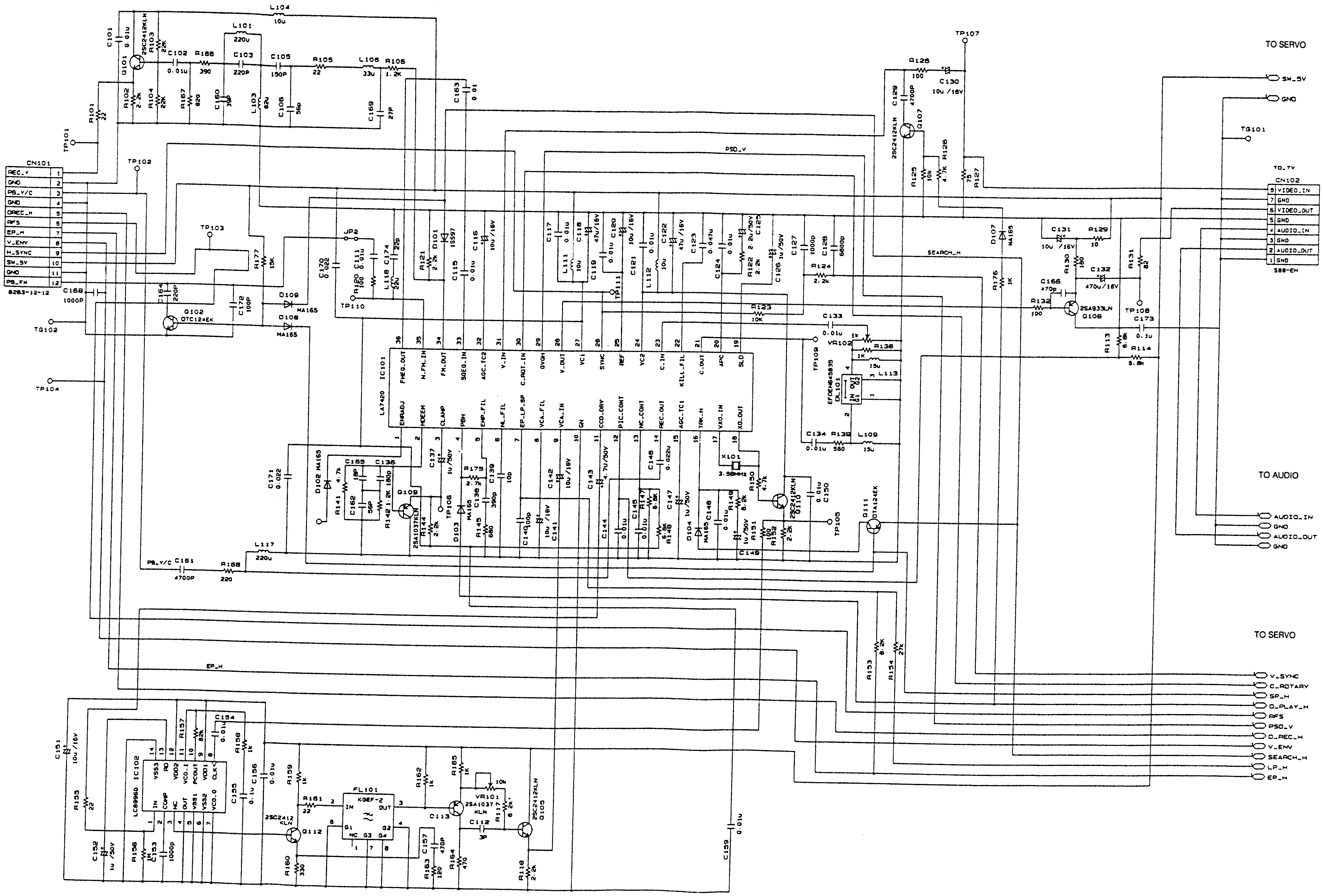
VCR RF PWB CIRCUIT DIAGRAMS

Refer to the following PWB pattern. : VCR RF PWB PATTERN 2-33page


SW 5V
C334
0.01
IC301 LA7410
R327
2.2K
(1%)
R302
6.8K
C312
0.01
L301
10u
C309
0.01
R301
22K
13
VCC1
12
C314
100P
C313
22/16
14
REC ADJ 1
11
C307
0.01
15
VCC2
REC ADT2
10
R303
10K
C305
0.01
16
AGC
9
C315 1/50
17
REC Y
8
C303
0.01
18
PB Y/C
7
CN301
C306 C0.01
19
GND
6
1
1CH-F
2
1CH-S
3
1CH G
4
2CH-G
5
2CH-S
6
2CH-F
C304
0.01
20
VENV
5
21
RECH
4
22
GND
HSTNC
3
C310 0.01
23
SW30
2
C311
0.01
24
EP/SP
1
R306
22
C320
0.01
REC Y
R307
22
C321
0.01
REC C
R314
1K
R309
12K
C326
0.01
R311
390
C328
47p
L304
22u
L306
180u
R317
22K
C332
0.01
C333
22/16
L303
47u
C331
330p
Q303
2SC2412K
R308
1K
C322
0.01
C323
47p
C325
0.01
Q301
2SC2412K
C327
39p
R315
1K
C329
0.01
L307
10u
L302
10u
R310
12K
R313
1K
Q302
2SC2412K
C330
33p
R318
12K
L308
220u
C324
18p
R312
390
R316
1K
L305
68u
R322
1.5K
R319
1.2K
R320
100
CN302
REC Y
1
GND
2
PB Y/C
3
GND
4
DRECH
5
RFS
6
EPH
7
VENV
8
HSYNC
9
SW 5V
10
GND
11
PBFM
12
C319
100P
C318
100P
C317
100P
C316
0.1u
Q307
DTC144EK
R304
15K
TO VCR
MAIN
PWB
(VIDEO
PROCESS)
R305 47K
Q305
2SA1037K
R326
2.2K
R325
1K

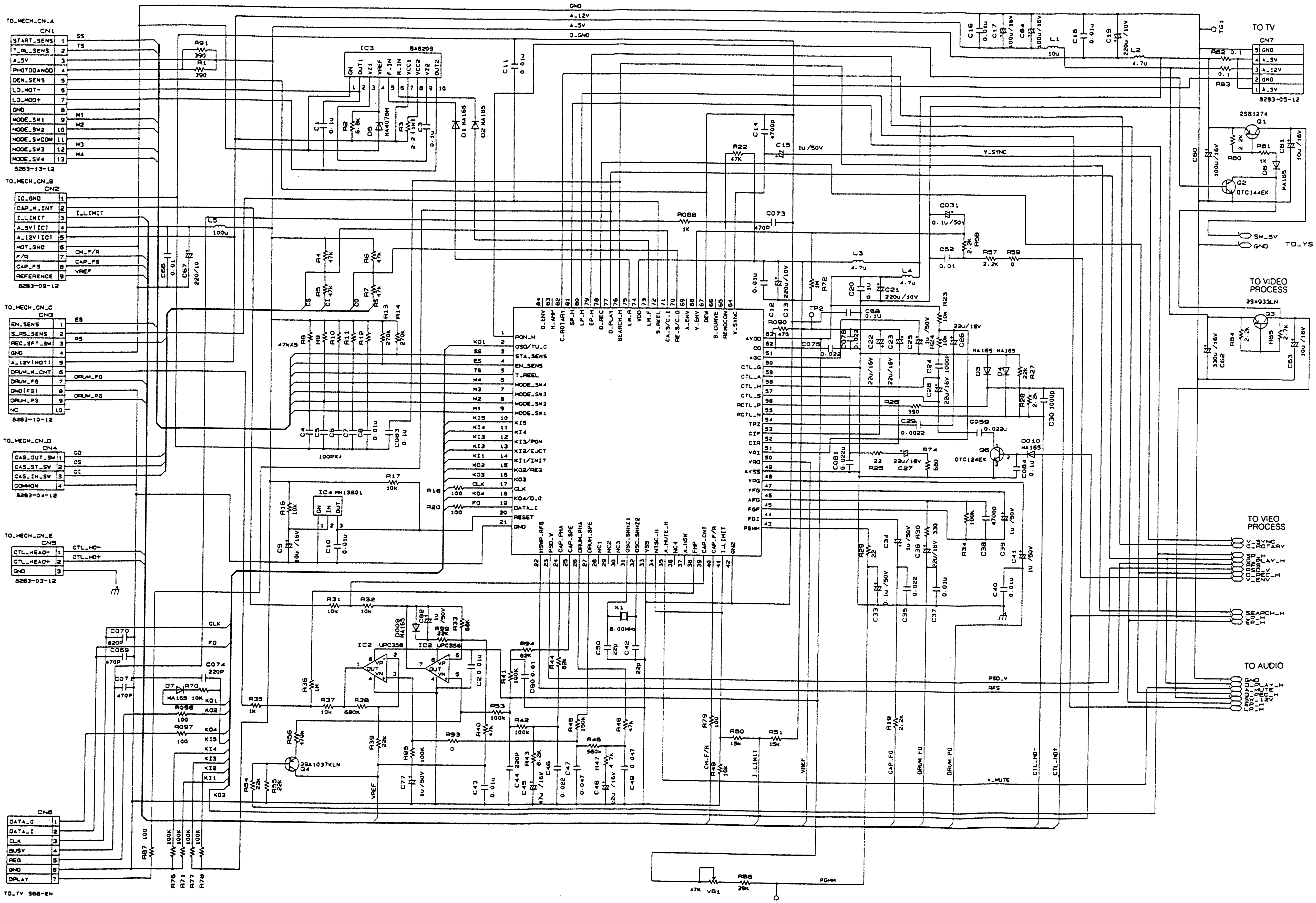
VCR MAIN PWB CIRCUIT DIAGRAMS(VIDEO PROCESS)

Refer to the following PW Board pattern. : VCR MAIN PWB PATTERN 2-31page,


CN101
REC_V
GND
PB_V/C
GND
DREC_H
RFS
EP_H
V_ENV
H_SYNC
SW_5V
GND
PB_FM
8263-12-12
TP101
TP102
TP103
TP104
TP105
TP106
TP107
TP108
TP109
TP110
TG101
TG102
Q101 2SC2412KLN
Q102 DTC124EK
Q107 2SC2412KLN
Q108 2SA933LN
Q109 2SA1037KLN
Q110 2SC2412KLN
Q111 DTA124EK
Q112 2SC2412 KLN
Q113 2SA1037 KLN
Q105 2SC2412KLN
IC101 LA7420
FREQ_OUT
N_FM_IN
FM_OUT
SDEQ_IN
AGC_TC2
V_IN
C_ROT_IN
OVGH
V_OUT
VC1
SYNC
REF
VC2
C_IN
KILL_FIL
C_OUT
APC
SLD
ENVADJ
MDEEM
CLAMP
PBH
EMP_FIL
NL_FIL
EP_LP_SP
VCA_FIL
VCA_IN
GN
CCD_DRV
PIC_CONT
NC_CONT
REC_OUT
AGC_TC1
TRK_H
VXO_IN
XO_OUT
IC102 LC8996D
VSS3
RO
VDD2
VCO_I
PCOUT
CLK
IN
COMP
NC
OUT
VSS1
VSS2
VCO_O
FL101 KGEF-2
IN
OUT
G1
G2
NC
G3
G4
DL101 EFDEN645835
X101 3.58MHz
VR101 10k
VR102 1k
D101 1SS97
D102 MA165
D103 MA165
D104 MA165
D107 MA165
D108 MA165
D109 MA165
JP2
L101 220u
L103 82u
L104 10u
L106 33u
L109 15u
L111 10u
L112 10u
L113 15u
L117 220u
L118 22u
PSD_V
SEARCH_H
EP_H
PB_Y/C
TO SERVO
SW_5V
GND
TO_TV
CN102
VIDEO_IN
GND
VIDEO_OUT
GND
AUDIO_IN
GND
AUDIO_OUT
GND
S8B-EH
TO AUDIO
AUDIO_IN
GND
AUDIO_OUT
GND
TO SERVO
V_SYNC
C_ROTARY
SP_H
D_PLAY_H
RFS
PSD_V
D_REC_H
V_ENV
SEARCH_H
LP_H
EP_H

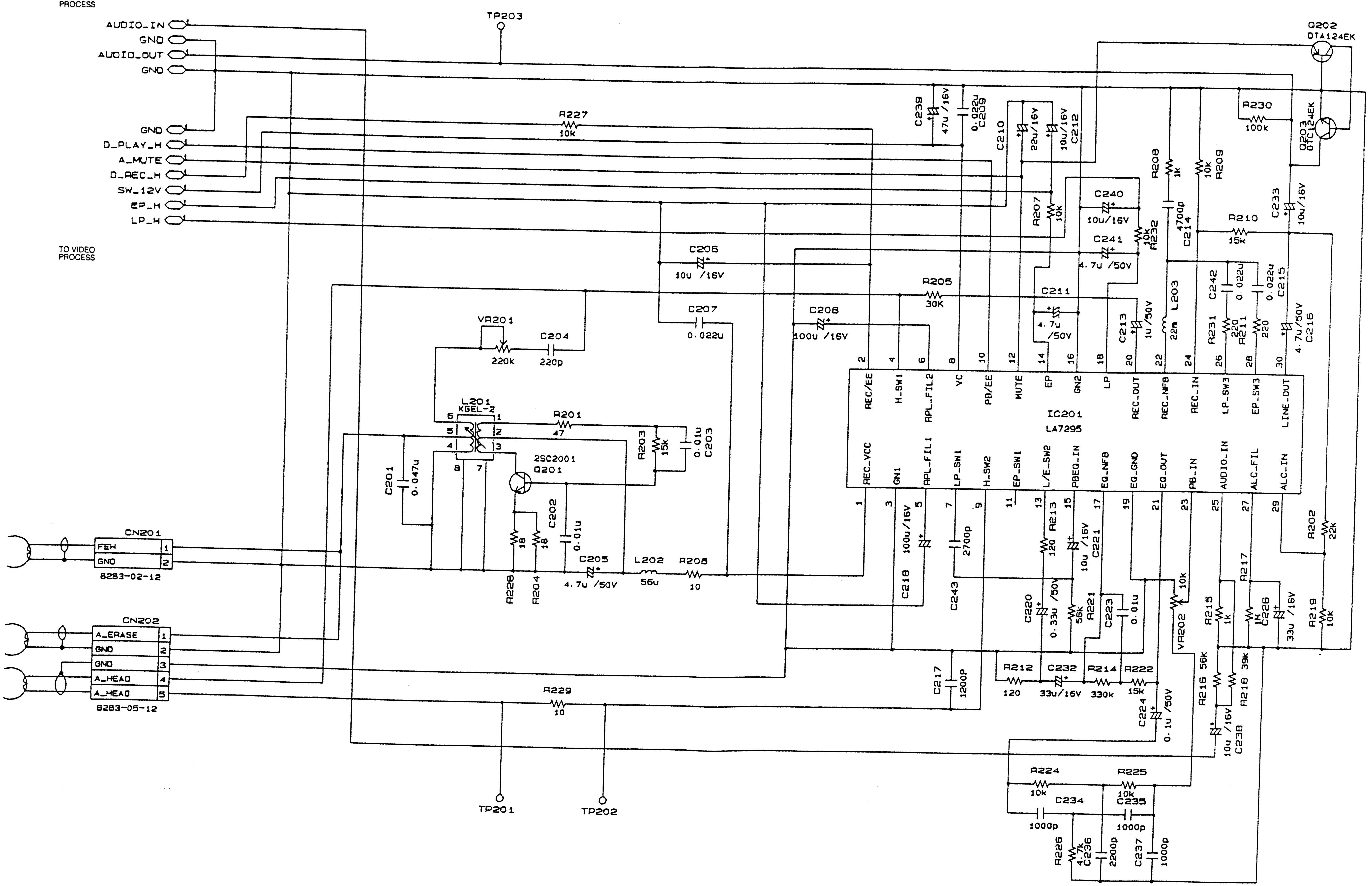
VCR MAIN PWB CIRCUIT DIAGRAMS(SERVO)

Refer to the following PWB pattern. : VCR MAIN PWB PATTERN 2-31page,

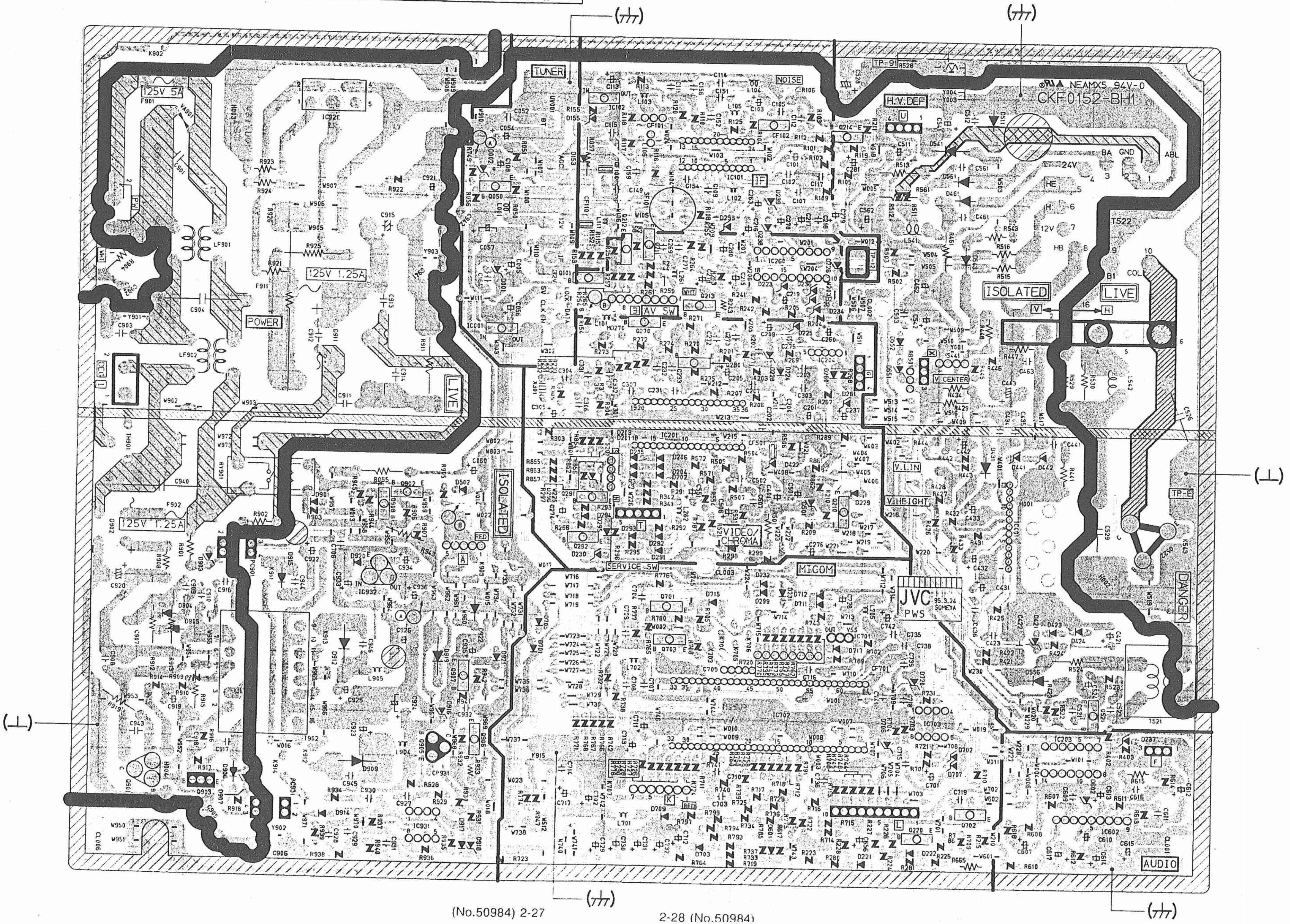

TO_MECH_CN_A
CN1
START_SENS
T_RL_SENS
A_5V
PHOTODANODE
DEW_SENS
LD_MOT-
LD_MOD+
GND
MODE_SW1
MODE_SW2
MODE_SWCOM
MODE_SW3
MODE_SW4
8283-13-12
TO_MECH_CN_B
CN2
IC_GND
CAP_H_INT
I_LIMIT
A_5V(IC)
A_12V(IC)
MOT_GND
F/R
CAP_FG
REFERENCE
8283-09-12
TO_MECH_CN_C
CN3
EN_SENS
S_RS_SENS
REC_SFT_SW
GND
A_12V(MOT)
DRUM_M_CNT
DRUM_FG
GND(FG)
DRUM_PG
NC
8283-10-12
TO_MECH_CN_D
CN4
CAS_OUT_SW
CAS_ST_SW
CAS_IN_SW
COMMON
8283-04-12
TO_MECH_CN_E
CN5
CTL_HEAD-
CTL_HEAD+
GND
8283-03-12
CN6
DATA_O
DATA_I
CLK
BUSY
REQ
GND
DPLAY
TO_TV S68-EH
IC3 BA6209
IC4 MN13801
IC2 UPC358
X1 8.00MHz
Q4 2SA1037KLN
Q6 DTC124EK
GND
A_12V
A_5V
D_GND
V_SYNC
TO TV
CN7
GND
A_5V
A_12V
8283-05-12
2SB1274 Q1
Q2 DTC144EK
SW_5V
TO_YS
TO VIDEO PROCESS
2SA933LN Q3
TO VIEO PROCESS
V_SYNC
ROTARY
PLAY_H
REC_H
ENV
SEARCH_H
TO AUDIO
PSD_V
RFS
A_MUTE
CH_F/R
I_LIMIT
VREF
CAP_FG
DRUM_FG
DRUM_PG
CTL_HD-
CTL_HD+
47K VR1
R86 39K
PGMN
TP1
TP2

VCR MAIN PWB CIRCUIT DIAGRAMS(AUDIO)

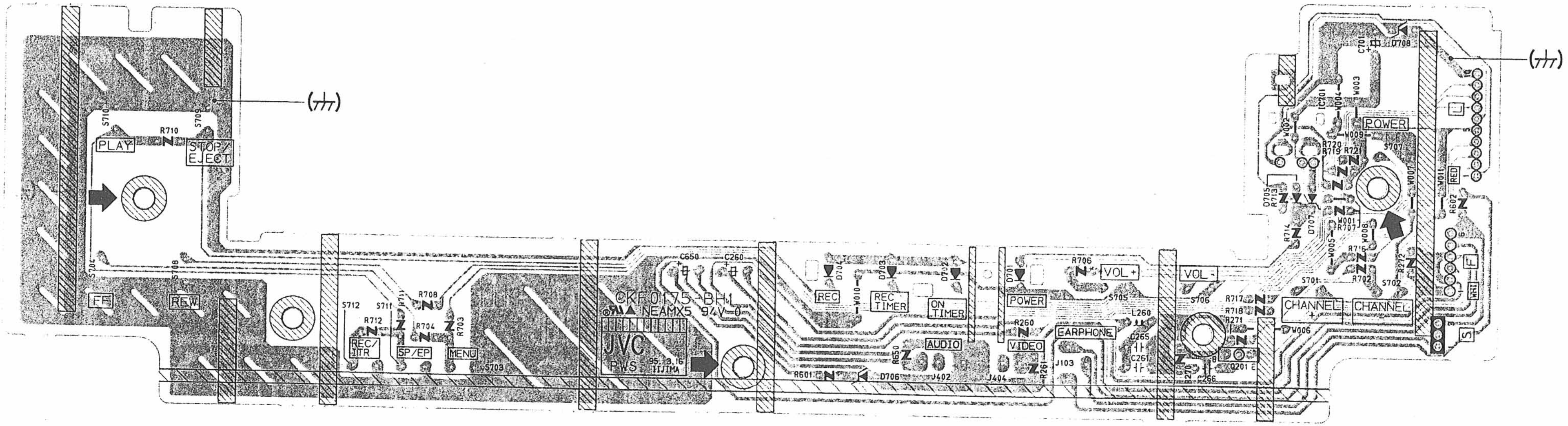
Refer to the following PW Board pattern. : VCR MAIN PWB PATTERN 2-31page.


TO VIEO PROCESS
AUDIO_IN
GND
AUDIO_OUT
GND
GND
D_PLAY_H
A_MUTE
D_REC_H
SW_12V
EP_H
LP_H
TO VIDEO PROCESS
TP203
Q202
DTA124EK
Q203
DTC124EK
R227
10k
C239
47u /16V
0.022u
C209
C210
22u/16V
10u/16V
C212
R230
100k
R208
1k
10k
R209
R207
10k
C240
10u/16V
C241
4.7u /50V
10k
R232
4700p
C214
R210
15k
C233
10u/16V
C206
10u /16V
R205
30K
C211
4.7u
/50V
C213
1u /50V
L203
22m
C242
0.022u
0.022u
C215
R231
220
R211
220
4.7u/50V
C216
C207
0.022u
C208
100u /16V
VR201
220k
C204
220p
L201
KGEL-2
R201
47
R203
15k
0.01u
C203
2SC2001
Q201
C201
0.047u
R202
18
C202
0.01u
C205
4.7u /50V
L202
56u
R206
10
R228
R204
18
IC201
LA7295
REC/EE
H_SW1
APL_FIL2
VC
PB/EE
MUTE
EP
GN2
LP
REC_OUT
REC_NFB
REC_IN
LP_SW3
EP_SW3
LINE_OUT
REC_VCC
GN1
APL_FIL1
LP_SW1
H_SW2
EP_SW1
L/E_SW2
PBEQ_IN
EQ_NFB
EQ_GND
EQ_OUT
PB_IN
AUDIO_IN
ALC_FIL
ALC_IN
100u/16V
C218
2700p
C243
R213
120
10u /16V
C221
C220
0.33u /50V
56k
R221
C223
0.01u
VR202
10k
R215
1k
R217
1M
C226
33u /16V
R202
22K
R219
10K
C217
1200P
R212
120
C232
33u/16V
R214
330k
R222
15k
C224
0.1u /50V
R216
56k
R218
39k
10u /16V
C238
CN201
FEH
GND
8283-02-12
CN202
A_ERASE
GND
GND
A_HEAD
A_HEAD
8283-05-12
R229
10
TP201
TP202
R224
10k
R225
10k
C234
1000p
C235
1000p
R226
4.7k
C236
2200p
C237
1000p

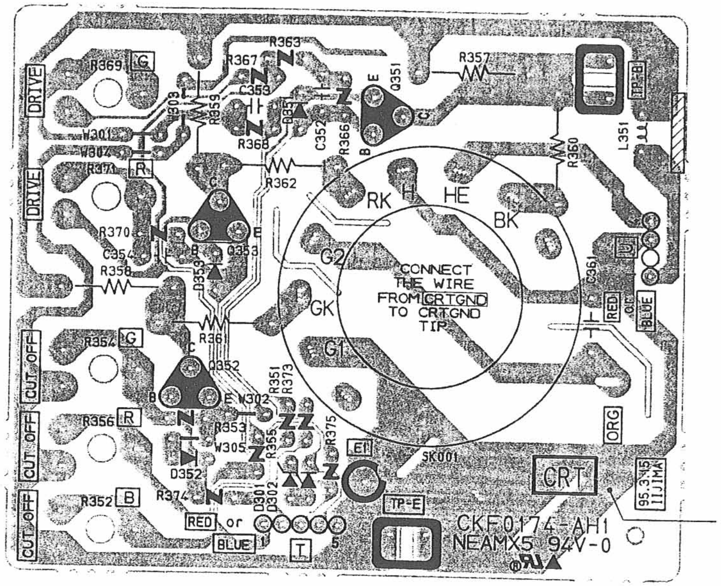
MAIN PWB PATTERN (SGL-1006A[US]/SGL-1506A[CA]/SGL-1710A[LA])


TUNER
NOISE
TP-91
H.V.DEF
NEAMX5 94V-0
CKF0152-BH1
BA
GND
ABL
24V
HE
12V
HB
T522
COL
ISOLATED
LIVE
V.CENTER
V.LIN
V.HEIGHT
TP-E
DANGER
T521
AUDIO
125V 5A
125V 1.25A
POWER
LIVE
DEG
ISOLATED
AV SW
VIDEO/CHROMA
SERVICE SW
MICOM
JVC
PWS
95.3.24
RED

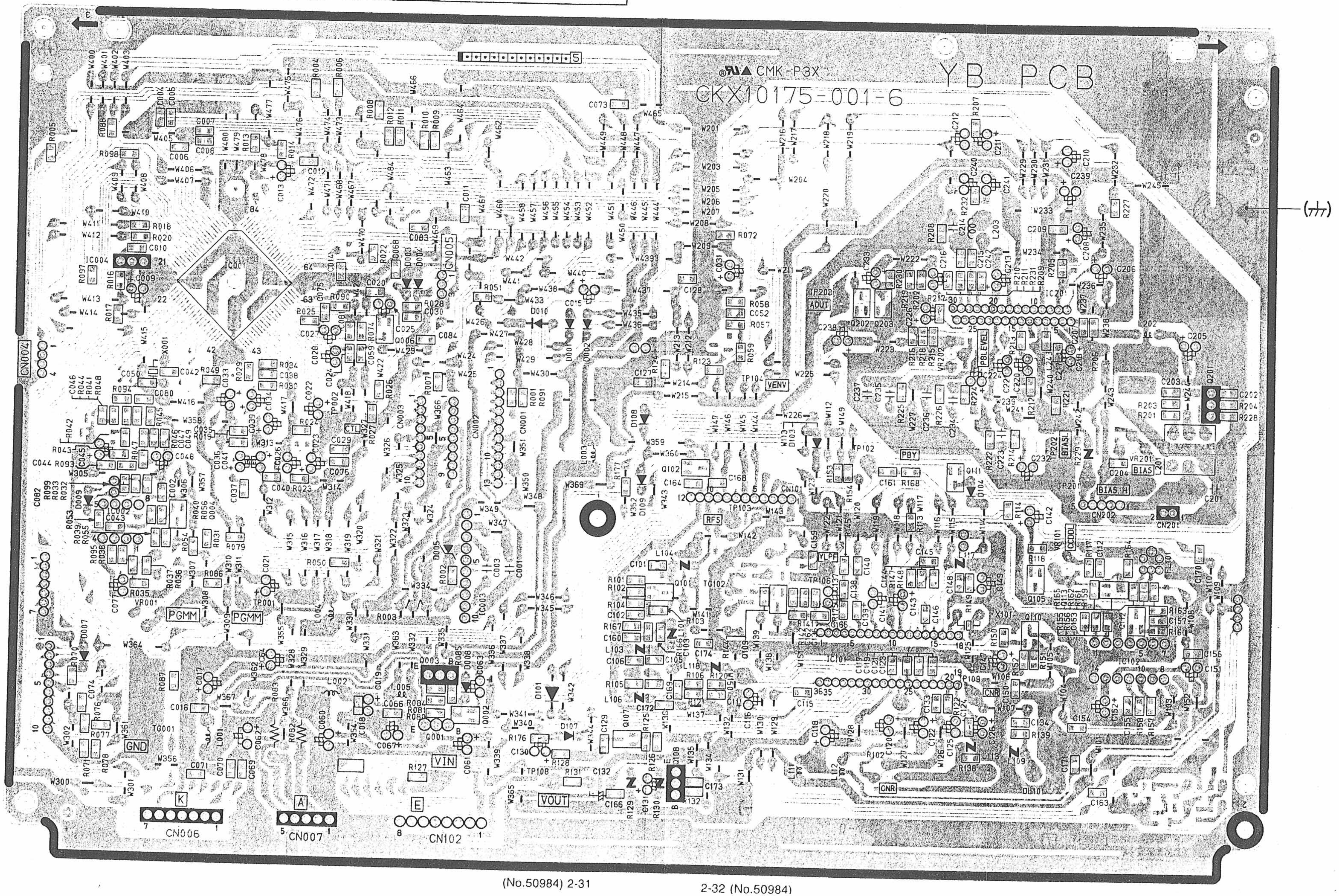
FRONT CONTROL PWB PATTERN (SGL-4001A)


(⏚)
PLAY
STOP/EJECT
R710
S710
S709
FF
REW
S704
S708
S712
S711
R711
R708
R712
R704
R703
REC/ITR
SP/EP
MENU
S703
CKF0175-BH1
NEAMX5 94V-0
JVC
PWS
95.3.16
IIJIMA
C650
C260
REC
REC TIMER
ON TIMER
D704
D703
D702
W010
POWER
D701
R706
VOL+
VOL-
S705
S706
AUDIO
VIDEO
EARPHONE
R650
R601
D706
J402
J404
R260
R261
J103
L260
C265
C261
R270
R266
Q201
R717
R718
R271
CHANNEL +
CHANNEL -
W006
S701
S702
R702
R272
R716
W005
W001
R707
D707
R714
D705
R713
R720
R719
R721
S707
W009
W008
W004
IC701
W002
W003
C701
D708
W007
W011
R602
RED
POWER
(⏚)

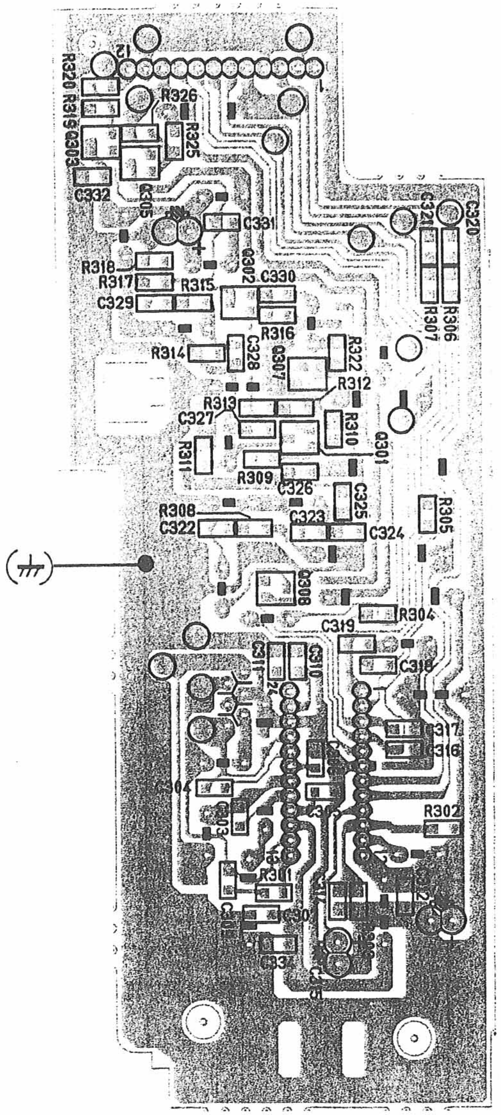
CRT SOCKET PWB PATTERN (SGL-3002A)


DRIVE
DRIVE
CUT OFF
CUT OFF
CUT OFF
R369
G
R363
R367
R357
Q351
E
C
B
C353
R359
W303
W301
W304
R368
D351
C352
R366
R360
L351
TP-B
R371
R
R362
RK
H
HE
BK
R370
Q353
C354
R358
D353
G2
CONNECT THE WIRE FROM CRTGND TO CRTGND TIP
GK
G1
C361
BLUE
RED
R361
R354
G
Q352
W302
R351
R373
R356
R
R353
W305
R355
R375
E1
SK001
D352
D301
D302
TP-E
CRT
ORG
95.3.16 IIJIMA
R352
B
R374
RED
or
BLUE
T
1
5
CKF0174-AH1
NEAMX5 94V-0
(⏚)

VTR MAIN PWB PATTERN


CMK-P3X
YB PCB
CKX10175-001-6
IC001
IC004
IC101
IC102
IC201
CN001
CN002
CN003
CN004
CN005
CN006
CN007
CN101
CN102
CN201
CN202
K
A
E
GND
PGMM
VIN
VOUT
AOUT
VENV
RFS
YLPF
PBY
PBLEVEL
BIASL
BIAS
BIAS H
CODDL
CNR
CTL
X101
VR001
VR201
TP001
TP002
TP101
TP102
TP103
TP106
TP108
TP201
TP202

VCR RF PWB PATTERN


12
R320
R319
C303
R326
R325
C332
C305
C331
Q302
R318
R317
R315
C329
C330
R316
R314
C328
Q307
R322
R312
R313
C327
R310
Q301
R311
R309
C326
C325
R308
C322
C323
C324
R305
C321
C320
R307
R306
Q306
R304
C319
C311
C310
C318
C317
C316
C304
R302
R301
C337

(DIM, : V)

VCR VOLTAGE

SYMBOL	PORT	PLAY	REC
Q001	B	4.5	4.5
	C	5	5
	E	5	5
Q002	B	5	5
	C	0	0
	E	GNS	GND
Q003	B	11	11
	C	12	12
	E	12	12
Q004	B	2.5	2.5
	C	2.5	2.5
	E	2.5	2.5
Q006	B		
	C		
	E		
Q101	B	2.5	2.5
	C	+5V	+5V
	E	0.2	2
Q102	B	5	5
	C	0	0
	E	GND	GND
Q105	B	4.2	4.2
	C	+5V	+5V
	E	3.6	3.6
Q107	B	0.6	0
	C	0	0
	E	GND	GND
Q108	B	0.2	1.7
	C	GND	GND
	E	2.5	2.5
Q109	B	2.2	2.2
	C	GND	GND
	E	2.8	2.2
Q110	B	2.8	2.8
	C	5	5
	E	2.2	5
Q111	B	5	0
	C	0	0
	E	0	0
Q112	B	2	2
	C	3.6	3.6
	E	0	1.4
Q113	B	3.6	2.4
	C	0	0
	E	4.3	3
Q201	B	5	0.7
	C	0	10.3
	E	0	0.4
Q202	B	GND	GND
	C	0	0
	E	0	0
Q203	B	0	0
	C	0	0
	E	GND	GND
Q301	B	2.5	0
	C	3.5	0
	E	2	0
Q302	B	0	0
	C	4	0
	E	1.2	0
Q303	B	1.8	0
	C	5	0
	E	1.3	0
Q305	B	4.4	5
	C	5	0
	E	+5V	+5V
Q307	B	0	0
	C	0	0
	E	GND	GND

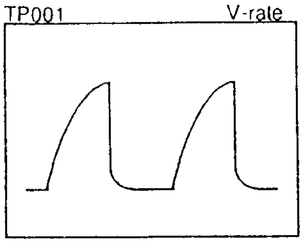
SYMBOL	PORT	PLAY	REC
IC001	1	5	5
	2	5	5
	3	5	5
	4	5	5
	5	5	
	6	0	0
	7	0	0
	8	0	0
	9	5	5
	10	5	5
	11	0	0
	12	5	5
	13	5	0.7
	14	0	0
	15	0	0
	16	5	5
	17	5	5
	18	5	5
	19	5	5
	20	0	0
	21	GND	GND
	22	2.5	2.5
	23	0	0
	24	2.8	2.8
	25	2.5	2.5
	26	2.5	2.5
	27	2.5	2.5
	28	0	0
	29	0	0
	30	0	0
	31		
	32		
	33	GND	GND
	34	5	5
	35	0	0
	36	0	0
	37	0	0
	38	1.3	1.3
	39	2.8	0
	40	0	0
	41	1.3	0
	42	GND	GND
	43	0	1.7
	44	0	0
	45	0	0
	46	2.5	2.5
	47	0	2.5
	48	2.5	2.5
	49	GND	GND
	50	0	2.5
	51	0	2.5
	52	0	2.5
	53	2.5	0
	54	0	0
	55	0	0
	56	0	3
	57	0	0
	58	0	2.5
	59	0	2.5
	60	3.5	0
	61	2.5	2.8
	62	5	0
	63	+5V	+5V
	64	1	0
	65	3	0
	66	0.3	0.3
	67	0	0
	68	2.5	0
	69	0.3	0.3
	70	5	2.5
	71	2.5	2.5
	72	0.7	0.5
	73	5	5
	74	+5V	+5V
	75	0	5
	76	0	0
	77	5	0
	78	0.3	5
	79	0	0
	80	0	0
	81	5	5
	82	2.7	2.7
	83	0	0
	84	0.3	0.3

SYMBOL	PORT	PLAY	REC
IC002	1	1.6	1.6
	2	2.5	2.5
	3	2.5	2.5
	4	GND	GND
	5	2.7	2.7
	6	2.5	2.5
	7	2.8	2.8
	8	+5V	+5V
IC003	1	GND	GND
	2	0.5	0.5
	3	0.9	0.9
	4	7.5	7.5
	5	4.3	4.3
	6	4.3	4.3
	7	12	12
	8	12	12
	9	1	1
	10	0.5	0.5
IC004	1	GND	GND
	2	5	5
	3	5	5
IC101	1	0	0
	2	2.2	2.5
	3	3	3
	4	4.7	2.3
	5	4.6	2.3
	6	3	3
	7	0.4	0.4
	8	3.2	3.2
	9	2.2	2.2
	10	GND	GND
	11	1.2	1.2
	12	2.5	2.5
	13	2.5	2.5
	14	3.5	2.5
	15	2.3	2.3
	16	2	2
	17	4	4
	18	3	3
	19	3	0
	20	3	3
	21	2	2
	22	2	2
	23	1.8	1.6
	24	+5V	+5V
	25	4.2	4.2
	26	0.6	0.6
	27	+5V	+5V
	28	2	2
	29	0	0
	30	2.7	2.7
	31	3.3	3.3
	32	1.6	1.5
	33	0.3	0.3
	34	3.8	3.4
	35	3.7	0
	36	1	1.5
IC102	1	2.2	2.2
	2	2.3	0
	3	0	0
	4	2	2
	5	GND	GND
	6	GND	GND
	7	0	0
	8	0	1.2
	9	+5V	+5V
	10	0	0
	11	0	0
	12	+5V	+5V
	13	9.5	9.5
	14	GND	GND

SYMBOL	PORT	PLAY	REC
IC201	1	0.2	11
	2	0.3	4.8
	3	GND	GND
	4	0	0
	5	7.6	7.6
	6	9	9
	7	0	0
	8	+12V	+12V
	9	0	0
	10	5	0
	11	0	0
	12	0	0
	13	0	0
	14	0	0
	15	2.3	2.3
	16	GND	GND
	17	2.3	2.3
	18	0	0
	19	GND	GND
	20	3.8	3.8
	21	2.5	2.5
	22	1.3	1.3
	23	0	0
	24	0	0
	25	0	0
	26	0	0
	27	0	0
	28	0	0
	29	0	0
	30	4	4
IC301	1	0	0
	2	1.4	1.4
	3	0.5	0.5
	4	0	5
	5	2.8	0
	6	GND	GND
	7	2.3	3.6
	8	0	3.6
	9	2.2	0
	10	2.5	2.5
	11	5	3.7
	12	+5V	+5V
	13	0	1.7
	14	0	4.3
	15	+5V	+5V
	16	2	3.8
	17	0.7	0
	18	0	4.3
	19	2	3.8
	20	0.7	0
	21	0	4.3
	22	GND	GND
	23	0	0
	24	0	0

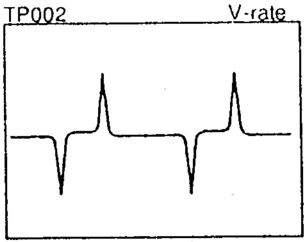
VCR WAVEFORM

TP001 V-rate



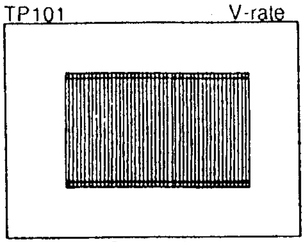
3.6Vp-p

TP002 V-rate



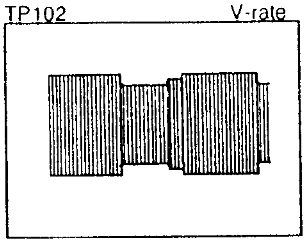
SP PB 2.6Vp-p
EP PB 2.3Vp-p

TP101 V-rate



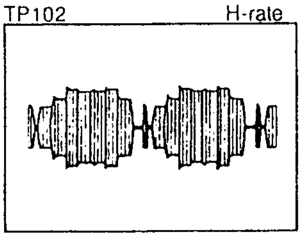
REC 200mVp-p

TP102 V-rate



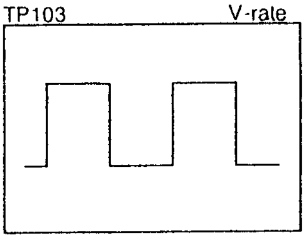
PB 500mVp-p

TP102 H-rate



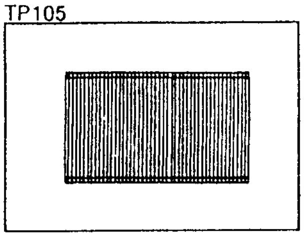
REC 360mVp-p

TP103 V-rate



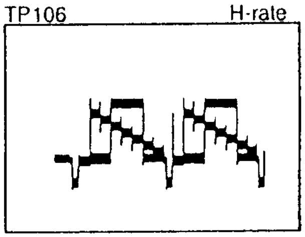
5.4Vp-p

TP105



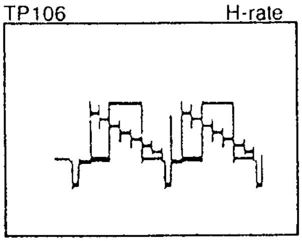
PB 600mVp-p
REC 500mVp-p

TP106 H-rate



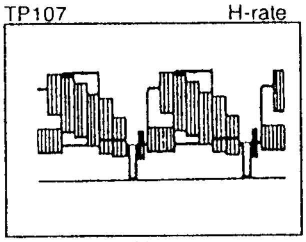
PB 500mVp-p

TP106 H-rate



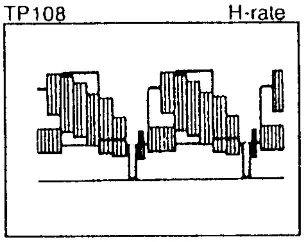
REC 460mVp-p

TP107 H-rate



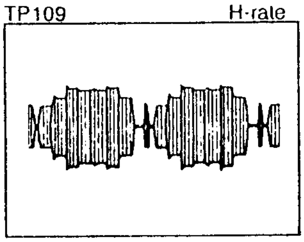
1Vp-p

TP108 H-rate



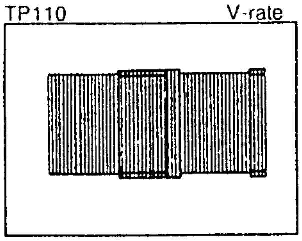
PB 950mVp-p
REC 850mVp-p

TP109 H-rate



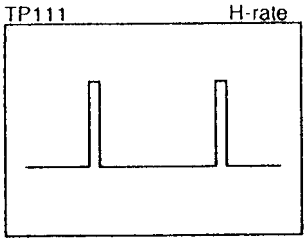
PB 400mVp-p
REC 270mVp-p

TP110 V-rate



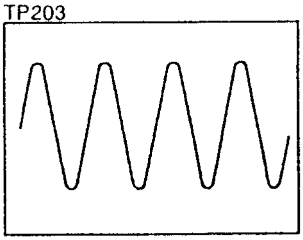
PB 400mVp-p

TP111 H-rate



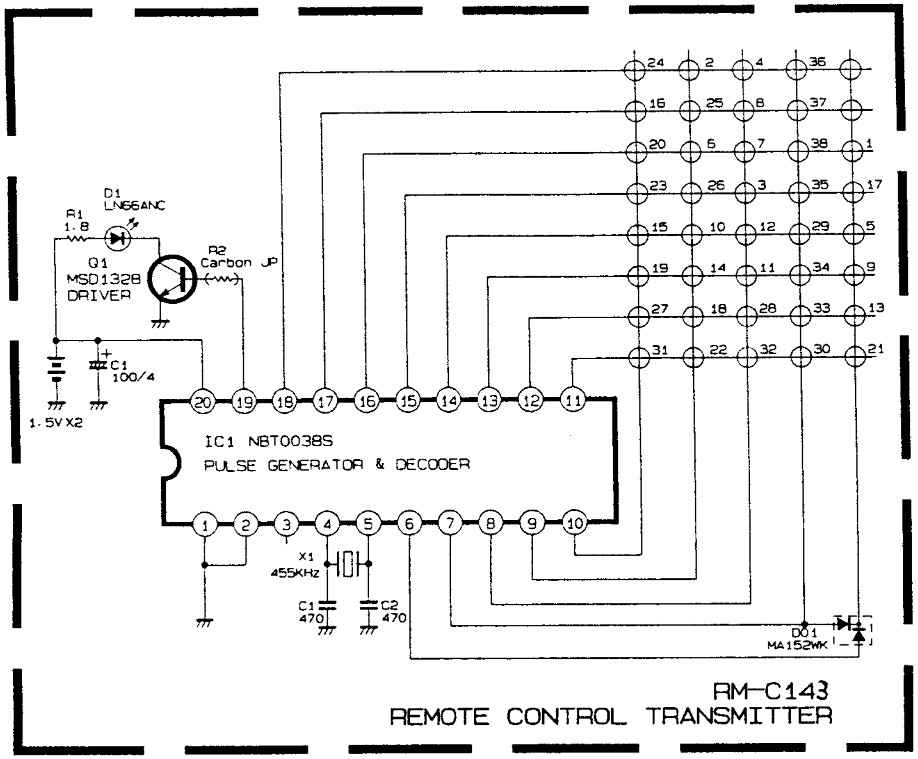
5Vp-p

TP203



1.2Vp-p

REMOTE CONTROL TRANSMITTER CIRCUIT DIAGRAMS [RM-C143]



■ KEY FUNCTION

No.	Key name	No.	Key name	No.	Key name
1	CLOSED CAPTION	14	0	27	MENU ▽
2	SLEEP TIMER	15	+100	28	CW SKIP
3	DISPLAY	16	RETURN	29	REW
4	POWER	17	VCR PLUS+	30	PLAY
5	1	18	HELP	31	FF
6	2	19	MENU △	32	PAUSE
7	3	20	EXIT	33	TV/VIDEO
8	4	21	TIMER	34	MUTE
9	5	22	MENU ◁	35	VOL−
10	6	23	———	36	VOL+
11	7	24	MENU ▷	37	CHANNEL−
12	8	25	REC	38	CHANNEL+
13	9	26	STOP	/	

VP
HK

PARTS LIST (TV PART)

CAUTION

- The parts identified by the ⚠ symbol are important for the safety . Whenever replacing these parts, be sure to use specified ones to secure the safety .
- The parts not indicated in this Parts List and those which are filled with lines —— in the Parts No. columns will not be supplied .
- P. W. Board Ass'y will not be supplied, but those which are filled with the Parts No. in the Parts No. columns will be supplied .
- As a rule, the resistors and capacitors which are indicated as shown in "HOW TO EXPRESS PARTS NUMBERS OF STANDARD PARTS" are not shown in the list of the parts on the board .
  When ordering the service parts, confirm the resistance/rated power, capacitance/rated voltage, and type of the parts, then order by the part No. indicated according to "HOW TO EXPRESS PARTS NUMBERS OF STANDARD PARTS" .

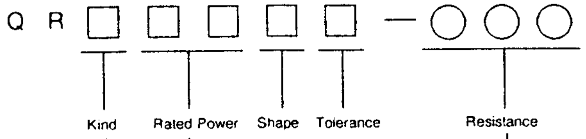
ABBREVIATIONS OF RESISTORS, CAPACITORS AND TOLERANCES

RESISTORS		CAPACITORS	
C R	Carbon Resistor	C CAP.	Ceramic Capacitor
F R	Fusible Resistor	E CAP.	Electrolytic Capacitor
P R	Plate Resistor	M CAP.	Mylar Capacitor
V R	Variable Resistor	HV CAP.	High Voltage Capacitor
HV R	High Voltage Resistor	MF CAP.	Metalized Film Capacitor
MF R	Metal Film Resistor	MM CAP.	Metalized Mylar Capacitor
MG R	Metal Glazed Resistor	MP CAP.	Metalized Polystyrol Capacitor
MP R	Metal Plate Resistor	PP CAP.	Polypropylene Capacitor
OM R	Metal Oxide Film Resistor	PS CAP.	Polystyrol Capacitor
CMF R	Coating Metal Film Resistor	TF CAP.	Thin Film Capacitor
UNF R	Non-Flammable Resistor	MPP CAP.	Metalized Polypropylene Capacitor
CH V R	Chip Variable Resistor	TAN. CAP.	Tantalum Capacitor
CH MG R	Chip Metal Glazed Resistor	CH C CAP.	Chip Ceramic Capacitor
COMP. R	Composition Resistor	BP E CAP.	Bi-Polar Electrolytic Capacitor
LPTC R	Linear Positive Temperature Coefficient Resistor	CH AL E CAP.	Chip Aluminum Electrolytic Capacitor
		CH AL BP CAP.	Chip Aluminum Bi-Polar Capacitor
		CH TAN. E CAP.	Chip Tantalum Electrolytic Capacitor
		CH AL BP E CAP.	Chip Tantalum Bi-Polar Electrolytic Capacitor

TOLERANCES									
F	G	J	K	M	N	R	H	Z	P
±1%	±2%	±5%	±10%	±20%	±30%	+30% -10%	+50% -10%	+80% -20%	+100% -0%

HOW TO EXPRESS PARTS NUMBERS OF STANDARD PARTS

■ RESISTOR


Q R □ □ □ □ □ — ○ ○ ○
Kind
Rated Power
Shape
Tolerance
Resistance

Symbol	Part Name
C	COMP.R
D	C R
S	CH MG R

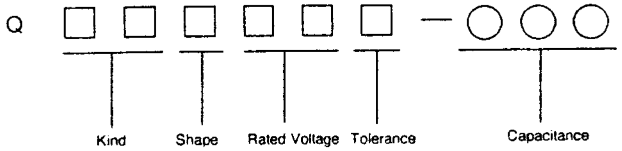
Symbol	Rated Power
0 1	1 w
1 2	1/2 w
1 4	1/4 w
1 6	1/6 w
1 8	1/8 w

Symbol	Shape
1	Straight lead
8	Chip

Indicate with first two-figure expressed by Ω and following 0.
please note that,in case of resistance less than 10 Ω, a letter "R" will be effective as point.

EX.
2.2 Ω = 2R2
470 Ω = 47×10^1 → 471
150kΩ = 15×10^4 → 154

■ CAPACITOR


Q □ □ □ □ □ □ — ○ ○ ○
Kind
Shape
Rated Voltage
Tolerance
Capacitance

Symbol	Part Name
CS	C CAP.
CS	CH C CAP.
ET	E CAP.
FM	M CAP.

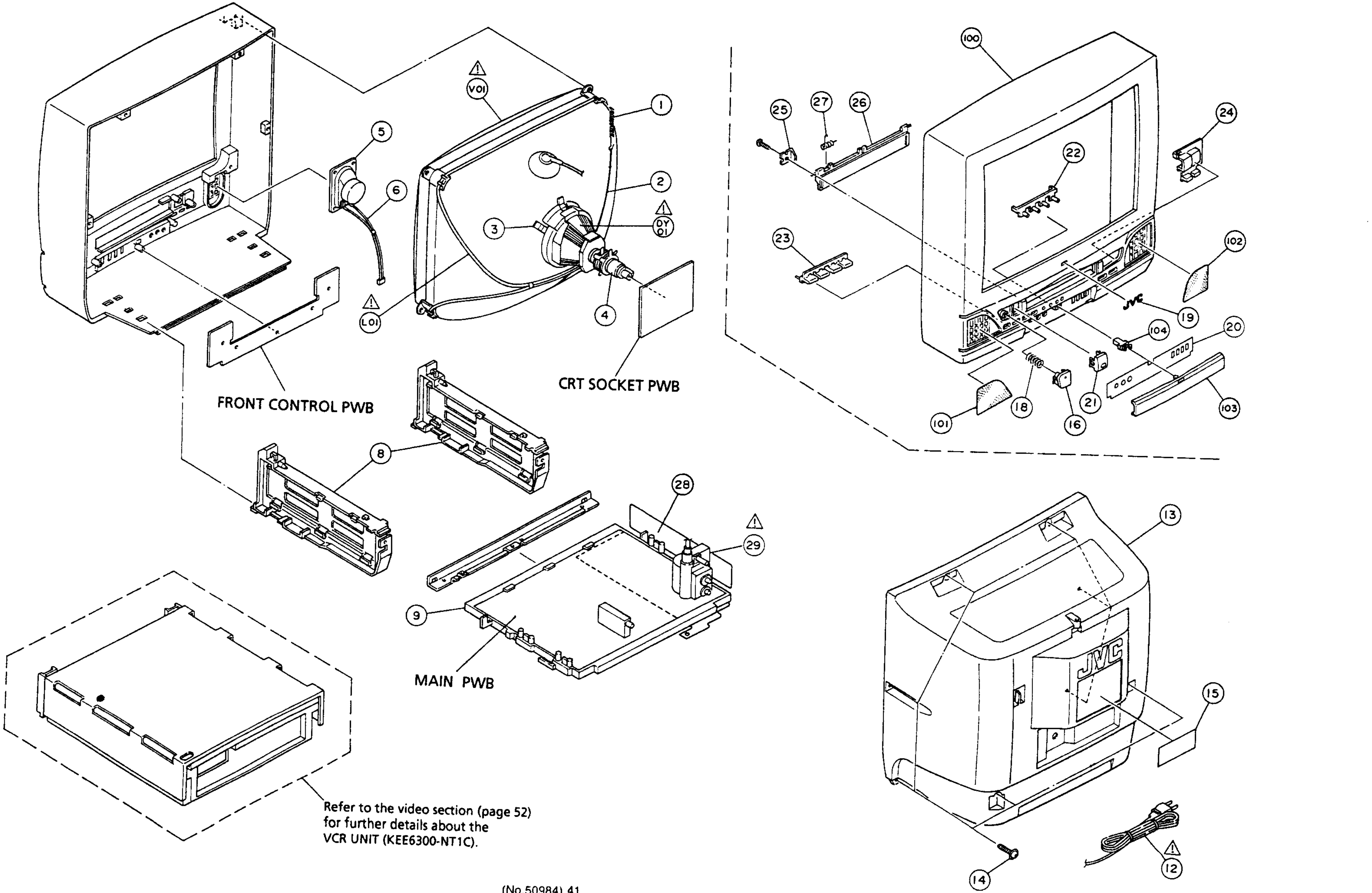
6Figure \ 5Figure	0	1	2
A		10V	100V
C		16V	160V
D			200V
E		25V	250V
H		50V	500V
J	6.3V	63V	
V		35V	

Indicate with first two-figure expressed by pF and following 0.
Please note that,in case of capacitance less than 10 pF a letter "R" will be effective as point.

EX
5pF = 5R0
1000pF = 10×10^2 → 102
47μF = 47×10^6 → 476

Symbol	Shape
1	Straight lead
1	Leads in the same direction
8	Chip
A	Leads in the same direction (compact part)

EXPLODED VIEW


V01
1
2
3
DY 01
4
5
6
L01
FRONT CONTROL PWB
CRT SOCKET PWB
8
28
29
9
MAIN PWB
100
25
27
26
24
22
23
102
JVC
19
104
20
21
18
16
101
103
13
JVC
15
14
12

Refer to the video section (page 52) for further details about the VCR UNIT (KEE6300-NT1C).

EXPLODED VIEW PARTS LIST

TV-C2026(US&CA)

⚠	Ref.No.	Part No.	Part Name	Description	Local
⚠	V01	A51KSV73X	PICTURE TUBE(C)		
⚠	L01	CELD041-005J6	DEG COIL		
⚠	DY01	CJ28011-00A	DEF YOKE		
	1	A48457-3-H	SPRING		
	2	CHGB0016-0B-FH	BRAIDED WIRE		
	3	CE42153-00AJ1	WEDGE ASSY	(×4)	
	4	CE42378-00A	P.C.MAGNET		
	5	CEBSS09D-03KJ2	SPEAKER	SP01	
	6	CHGS0003-0B-FH	SP WIRE ASSY		
	8	CM12606-C01-VH	CHASSIS STAND	(×2)	
	9	CM12628-C01-VH	CHASSIS BASE		
⚠	12	QMP14B0-200J5	POWER CORD		
	13	CM12605-B02-MH	REAR COVER		
	14	GBSF4016Z-H	TAPPING SCREW	(×7)	
	15	CM22907-002-H	RATING LABEL	(US)	
	15	CM22874-001-H	RATING LABEL	(CA)	
	16	CM36206-A01-H	POWER KNOB		
	18	CM35235-010-H	SPRING		
	19	CM43094-006-H	JVC MARK		
	20	CM36091-A04-H	OPERATION SHEET		
	21	CM36088-C01-H	SENSOR PANEL		
	22	CM36086-001-H	LED LENS		
	23	CM22844-C01-H	CH.VOL KNOB		
	24	CM22843-002-H	PLAY KNOB		
	25	CM48033-002-H	FLAP BRACKET		
	26	CM22826-A02-H	CASSETTE FLAP		
	27	CM48016-001-H	SPRING		
	28	CM36294-00A-H	SHIELD		
⚠	29	CJ27963-00BJ1	FLYBACK TRANSF.	T1522	
	100	CM12603-B0B-MH	F.CABINET ASSY	Inc.No.101～104	
	101	CM36083-00F-H	SP SHEET		
	102	CM36083-00G-H	SP SHEET		
	103	CM22827-002-H	CONTROL DOOR		
	104	CM48001-00A	DOOR LATCH		

USING P.W. BOARD

P.W.B ASS'Y \ Model	TV-C2026(US)	TV-C2026(CA)	TV-C2126
MAIN P.W.B ASS'Y	SGL-1006A-H2	SGL-1506A-H2	SGL-1710A-H2

EXPLODED VIEW PARTS LIST

TV-C2126

⚠	Ref.No.	Part No.	Part Name	Description	Local
⚠	V01	A51KSV73X	PICTURE TUBE(C)		
⚠	L01	CELD041-005J6	DEG COIL		
⚠	DY01	CJ28011-00A	DEF YOKE		
	1	A48457-3-H	SPRING		
	2	CHGB0016-0B-FH	BRAIDED WIRE		
	3	CE42153-00AJ1	WEDGE ASSY	(×4)	
	4	CE42378-00A	P.C.MAGNET		
	5	CEBSS09D-03KJ2	SPEAKER	SP01	
	6	CHGS0003-0B-FH	SP WIRE ASSY		
	8	CM12606-C01-VH	CHASSIS STAND	(×2)	
	9	CM12628-C01-VH	CHASSIS BASE		
⚠	12	QMP14B0-200J5	POWER CORD		
	13	CM12605-B02-MH	REAR COVER		
	14	GBSF4016Z-H	TAPPING SCREW	(×7)	
	15	CM22818-001-H	RATING LABEL		
	16	CM36206-A01-H	POWER KNOB		
	18	CM35235-007-H	SPRING		
	19	CM43094-006-H	JVC MARK		
	20	CM36091-A04-H	OPERATION SHEET		
	21	CM36088-C01-H	SENSOR PANEL		
	22	CM36086-001-H	LED LENS		
	23	CM22844-C01-H	CH.VOL KNOB		
	24	CM22843-002-H	PLAY KNOB		
	25	CM48033-002-H	FLAP BRACKET		
	26	CM22826-A02-H	CASSETTE FLAP		
	27	CM48016-001-H	SPRING		
	28	CM36294-00A-H	SHIELD		
⚠	29	CJ27963-00BJ1	FLYBACK TRANSF.	T1522	
	100	CM12603-B0B-MH	F.CABINET ASSY	Inc.No.101～104	
	101	CM36083-00F-H	SP SHEET		
	102	CM36083-00G-H	SP SHEET		
	103	CM22827-002-H	CONTROL DOOR		
	104	CM48001-00A	DOOR LATCH		

PRINTED WIRING BOARD PARTS LIST

Regarding the main PW Board Ass'y [SGL-1506A-H2] of the model TV-C2026(CA), refer to page 48.
Regarding the main PW Board Ass'y [SGL-1710A-H2] of the model TV-C2126, refer to page 49.

MAIN PW BOARD ASS'Y (SGL-1006A-H2) [TV-C2026(US)]

⚠	Symbol No.	Part No.	Part Name	Description	Local
	VARIABLE RESISTOR				
	R1106	QVPE611-503HZ	V R	50kΩ B NOISE	
	R1428	QVPE611-503HZ	V R	50kΩ B V.HEIGHT	
	R1444	QVPE611-503HZ	V R	50kΩ B V.LIN	
	RESISTOR				
	R1055	QRG019J-222S	OM R	2.2kΩ 1W J	
	R1057	QRG029J-680A	OM R	68 Ω 2W J	
	R1116	QRV141F-2200AY	MF R	220 Ω 1/4W F	
	R1243	QRD123J-151SX	C R	150 Ω 1/2W J	
	R1429	QRX019J-1R2S	MF R	1.2 Ω 1W J	
⚠	R1461	QRX029J-2R7A	MF R	2.7 Ω 2W J	
	R1513	QRG029J-472A	OM R	4.7kΩ 2W J	
	R1524	QRG039J-181A	OM R	180 Ω 3W J	
⚠	R1529	QRG029J-821A	OM R	820 Ω 2W J	
⚠	R1530	QRG029J-391A	OM R	390 Ω 2W J	
	R1543	QRD129J-4R7S	C R	4.7 Ω 1/2W J	
⚠	R1561	QRX029J-2R2A	MF R	2.2 Ω 2W J	
	R1615	QRD129J-4R7S	C R	4.7 Ω 1/2W J	
	R1665	QRD149J-101S	C R	100 Ω 1/4W J	
	R1720	QRB075J-103	NETW.R	10kΩ	
⚠	R1904	QRZ0111-275U	C R	2.7MΩ	

⚠	Symbol No.	Part No.	Part Name	Description			Local
	RESISTOR						
	R1908	QRM059K-1R0	MP R	1 Ω			
⚠	R1911	QRF074K-1R8	UNF R	1.8 Ω	7W	K	
	R1912-13	QRG029J-393A	OM R	39k Ω	2W	J	
	R1915	QRG019J-121S	OM R	120 Ω	1W	J	
	R1919	QRX019J-R33S	MF R	0.33 Ω	1W	J	
⚠	R1923	QRD149J-330S	C R	33 Ω	1/4W	J	
	R1924	QRD149J-391S	C R	390 Ω	1/4W	J	
	R1925	QRX029J-2R7	MF R	2.7 Ω	2W	J	
⚠	R1926	QRF204J-161	UNF R	160 Ω	20W	J	
	R1930	QRV141F-7501AY	MF R	7.5k Ω	1/4W	F	
	R1931	QRV141F-9761AY	MF R	9.76k Ω	1/4W	F	
	R1933	QRD123J-681SX	C R	680 Ω	1/2W	J	
	R1937	QRV141F-8201AY	MF R	8.2k Ω	1/4W	F	
	R1940	QRV141F-9761AY	MF R	9.76k Ω	1/4W	F	
	CAPACITOR						
	C1054	QEM61EK-106MZ	E CAP.	10 μF	25V	K	
	C1057	QEM51CM-477M	E CAP.	470 μF	16V	M	
	C1107	QFVC1HJ-474Z	TF CAP.	0.47 μF	50V	J	
	C1111	QFVC1HJ-224Z	TF CAP.	0.22 μF	50V	J	
	C1115	QFVC1HJ-105Z	TF CAP.	1 μF	50V	J	
	C1117	QFLC1HJ-104MZ	M CAP.	0.1 μF	50V	J	
	C1119	QFLC1HJ-103MZ	M CAP.	0.01 μF	50V	J	
	C1156	QFVC1HJ-224Z	TF CAP.	0.22 μF	50V	J	
	C1159	QFVC1HJ-154Z	TF CAP.	0.15 μF	50V	J	
	C1202-03	QFLC1HJ-103MZ	M CAP.	0.01 μF	50V	J	
	C1204	QFVC1HJ-124Z	TF CAP.	0.12 μF	50V	J	
	C1207	QFLC1HJ-104MZ	M CAP.	0.1 μF	50V	J	
	C1237	QETC0JM-107Z	E CAP.	100 μF	6.3V	M	
	C1271-73	QFLC1HJ-104MZ	M CAP.	0.1 μF	50V	J	
	C1275	QEN61HM-335Z	BP E CAP.	3.3 μF	50V	M	
	C1280	QEN61HM-105Z	BP E CAP.	1 μF	50V	M	
	C1303	QFLC1HJ-223MZ	M CAP.	0.022 μF	50V	J	
	C1306	QFN32AK-472ZJ1	M CAP.	4700 pF			
	C1307	QFLC1HJ-183MZ	M CAP.	0.018 μF	50V	J	
	C1423	QFLC1HJ-103MZ	M CAP.	0.01 μF	50V	J	
	C1431	QEE61VK-105BZ	TAN.CAP.	1 μF	35V	K	
	C1432	QETC1VM-477Z	E CAP.	470 μF	35V	M	
	C1433	QETC1VM-107Z	E CAP.	100 μF	35V	M	
	C1435	QCT25CH-270AZ	C CAP.	27 pF			
	C1462	QETC1VM-477Z	E CAP.	470 μF	35V	M	
	C1507	QFLC1HJ-103MZ	M CAP.	0.01 μF	50V	J	
	C1512	QFLC1HJ-473MZ	M CAP.	0.047 μF	50V	J	
	C1521	QFN32AK-472ZJ1	M CAP.	4700 pF	100V	K	
	C1523	QFN32AK-822ZJ1	M CAP.	8200 pF	100V	K	
⚠	C1526	QFZ0117-9801L	MPP CAP.	9800 pF			
⚠	C1528	QETB2CM-107	E CAP.	100 μF	160V	M	
⚠	C1529	QFZ0119-404L	MPP CAP.	0.4 μF	200V	±3%	
	C1541	QETC2EM-106Z	E CAP.	10 μF	250V	M	
	C1542	QETC1VM-107Z	E CAP.	100 μF	35V	M	
	C1609	QFLC1HJ-183MZ	M CAP.	0.018 μF	50V	J	
	C1616	QFLC1HJ-473MZ	M CAP.	0.047 μF	50V	J	
	C1703	QFLC1HJ-683MZ	M CAP.	0.068 μF	50V	J	
	C1705	CECN003-101	NET CAP.				
	C1716	QEKC0JM-476GMZ	E CAP.	47 μF	6.3V	M	
	C1718	QFV71HJ-824MZ	TF CAP.	0.82 μF	50V	J	
	C1720	QFLA1HJ-563M	M CAP.	0.056 μF	50V	J	
	C1736	QFLC1HJ-333MZ	M CAP.	0.033 μF	50V	J	
⚠	C1901	QFZ9036-104M	MF CAP.	0.1 μF	AC250V	M	
⚠	C1902	QCZ9056-332M	C CAP.	3300 pF	AC125V	Z	
⚠	C1903	QCZ9056-332M	C CAP.	3300 pF	AC125V	Z	
⚠	C1904	QFZ9036-104M	MF CAP.	0.1 μF	AC250V	M	
⚠	C1905	QCZ9056-332M	C CAP.	3300 pF	AC125V	Z	
⚠	C1906	QCZ9056-332M	C CAP.	3300 pF	AC125V	Z	
	C1907	QFP32GJ-183M	PP CAP.	0.018 μF	400V	J	
	C1908	QCZ0135-221AZ	C CAP.	220 pF	1kV	K	
	C1909-10	QCZ0135-101AZ	C CAP.	100 pF	1kV	K	

⚠ Symbol No.	Part No.	Part Name	Description	Local
CAPACITOR				
⚠ C1911	QCZ9030-472U	C CAP.	4700 p FAC125V	Z
⚠ C1913	QCZ9030-472U	C CAP.	4700 p FAC125V	Z
C1915	QEZ0169-337M	E CAP.	330 μF 200V	M
C1916	QFV71HJ-334MZ	TF CAP.	0.33 μF 50V	J
C1918	QFN31HJ-472ZJ1	M CAP.	4700 p F 50V	J
C1920	QEZ0191-107R	E CAP.	100 μF 200V	M
C1921	QETC2CM-106Z	E CAP.	10 μF 160V	M
C1922	QETC1JM-336Z	E CAP.	33 μF 63V	M
C1923	QEZ0105-128R	E CAP.	1200 μF 16V	M
C1925	QEZ0106-128R	E CAP.	1200 μF 10V	M
C1928	QFLC1HJ-103MZ	M CAP.	0.01 μF 50V	J
C1929	QFN31HJ-272ZJ1	M CAP.	2700 p F 50V	J
C1930	QFV71HJ-104MZ	TF CAP.	0.1 μF 50V	J
C1931	QFLC1HJ-104MZ	M CAP.	0.1 μF 50V	J
⚠ C1940	QFZ9036-104M	MF CAP.	0.1 μ FAC250V	M
⚠ C1941	QCZ9056-332M	C CAP.	3300 p FAC125V	Z
⚠ C1942	QCZ9056-332M	C CAP.	3300 p FAC125V	Z
C1943	QCZ0122-471A	C CAP.	470 p F 2kV	K
TRANSFORMER				
⚠ T1521	CE41106-00CJ1	DRIVE TRANSF		
⚠ T1522	CJ27963-00BJ1	FLYBACK TRANSF.		
⚠ T1902	CETS015-001J5	SWITCH.TRANSF.		
COIL				
L1101	CELP055-220Z	PEAKING COIL	22 μH	
L1102	CELP038-R82Z	PEAKING COIL	0.82 μH	
L1103	CELP055-220Z	PEAKING COIL	22 μH	
L1104	CELP057-150Z	PEAKING COIL	15 μH	
L1106	CE42452-003	COIL		
L1111	CELP041-R56	PEAKING COIL	0.56 μH	
L1262	CELP055-330Z	PEAKING COIL	33 μH	
L1265	CELP055-2R2Z	PEAKING COIL		
⚠ L1541	CELC901-100J6	HEATER CHOKE		
⚠ L1542	CE41210-008	LINEARITY COIL		
L1701	CELP055-4R7Z	PEAKING COIL	4.7 μH	
L1705	CELP055-4R7Z	PEAKING COIL	4.7 μH	
L1706-09	CELP021-180	PEAKING COIL	18 μH	
L1904-05	CELC048-330Z	CHOKE COIL		
DIODE				
D1001	MTZJ33(A)-T2	ZENER DIODE		
D1002	MTZJ9.1(B)-T2	ZENER DIODE		
D1155	MA4051(H)-T2	ZENER DIODE		
D1201-06	1SS133-T2	SI.DIODE		
D1221-22	1SS133-T2	SI.DIODE		
D1223	MTZJ15(A)-T2	ZENER DIODE		
D1225-26	MTZJ15(A)-T2	ZENER DIODE		
D1228	MTZJ15(A)-T2	ZENER DIODE		
D1229	1SS133-T2	SI.DIODE		
D1230	MTZJ5.6(A)-T2	ZENER DIODE		
D1231-32	1SS133-T2	SI.DIODE		
D1233-39	MTZJ15(A)-T2	ZENER DIODE		
D1260	1SS133-T2	SI.DIODE		
D1261	MTZJ5.1(A)-T2	ZENER DIODE		
D1263	MTZJ15(A)-T2	ZENER DIODE		
D1291-93	1SS133-T2	SI.DIODE		
D1296	MTZJ15(A)-T2	ZENER DIODE		
D1299	1SS133-T2	SI.DIODE		
D1421	MTZJ9.1(B)-T2	ZENER DIODE		
D1422	MTZJ11(A)-T2	ZENER DIODE		
D1431	1SR35-100-T3	SI.DIODE		
D1441-42	MTZJ33(A)-T2	ZENER DIODE		
D1461	RGP10J(C1)-T3	SI.DIODE		
D1501	MTZJ9.1(B)-T2	ZENER DIODE		
D1502	1SS133-T2	SI.DIODE		
D1511	RGP10J(C1)-T3	SI.DIODE		
D1541	RH1S-T3	SI.DIODE		
D1543	1SS81-T2	SI.DIODE		

⚠ Symbol No.	Part No.	Part Name	Description	Local
DIODE				
⚠ D1551	MTZJ7.5S-T2	ZENER DIODE		
D1552	1SS133-T2	SI.DIODE		
D1556	1SR35-100-T3	SI.DIODE		
D1561	RGP10J(C1)-T3	SI.DIODE		
D1601	1SS133-T2	SI.DIODE		
D1602	MTZJ15(A)-T2	ZENER DIODE		
D1701	1SS133-T2	SI.DIODE		
D1702	MTZJ5.6(A)-T2	ZENER DIODE		
D1703	1SS133-T2	SI.DIODE		
D1705	1SS133-T2	SI.DIODE		
D1706-07	MTZJ5.6(A)-T2	ZENER DIODE		
D1715	1SS133-T2	SI.DIODE		
D1717	1SS133-T2	SI.DIODE		
D1720	MTZJ5.6(A)-T2	ZENER DIODE		
D1901	1SS146-T2	SI.DIODE		
⚠ D1902	S1WB(A)60	SI.DIODE		
D1903	MTZJ15(A)-T2	ZENER DIODE		
D1904	AG01-T2	SI.DIODE		
D1905	AU01-T2	SI.DIODE		
D1906	AU01Z-T2	SI.DIODE		
D1907	RD15ES(B3)-T2	ZENER DIODE		
D1909	RL2Z-LFC4	SI DIODE		
⚠ D1911	D3SBA60	DIODE BRIDGE		
D1912	RK14-T3	S B DIODE		
D1914	1SS133-T2	SI.DIODE		
D1915	AU01Z-T2	SI.DIODE		
D1916	RD15ES(B1)-T2	ZENER DIODE		
D1917	1SS133-T2	SI.DIODE		
D1918	RD6.2ES(B3)-T2	ZENER DIODE		
D1919	RM10-T3	SI DIODE		
D1920-21	1SS133-T2	SI.DIODE		
D1922	ERA81-004-T2	SI DIODE		
TRANSISTOR				
Q1050	2SC1815(YG)-T	SI.TRANSISTOR		
Q1101	2SA562TM(Y)-T	SI.TRANSISTOR		
Q1210	2SA562TM(Y)-T	SI.TRANSISTOR		
Q1211-12	2SC1815(YG)-T	SI.TRANSISTOR		
Q1213	2SA562TM(Y)-T	SI.TRANSISTOR		
Q1214	2SC1815(YG)-T	SI.TRANSISTOR		
Q1220	2SC1815(YG)-T	SI.TRANSISTOR		
Q1270	2SC1815(YG)-T	SI.TRANSISTOR		
Q1280	2SC1815(YG)-T	SI.TRANSISTOR		
Q1291-92	2SA562TM(Y)-T	SI.TRANSISTOR		
Q1521	2SC2655(Y)-T	SI.TRANSISTOR		
⚠ Q1522	2SD1554-C1	SI.TRANSISTOR		
Q1701-03	2SC1815(YG)-T	SI.TRANSISTOR		
⚠ Q1901	2SC4546-C1	POWER TRANSISTOR		
Q1902	2SC1815(YG)-T	SI.TRANSISTOR		
Q1903	2SC3616(MLK)	SI.TRANSISTOR		
Q1905	2SB941(P)	SI.TRANSISTOR		
Q1906	2SA966(OY)-T	SI.TRANSISTOR		
Q1907	2SC1815(YG)-T	SI.TRANSISTOR		
Q1908	2SA562TM(Y)-T	SI.TRANSISTOR		
IC				
IC1001	AN78L05-Y	I.C.		
IC1101	LA7583	I.C(MONO-ANA)		
IC1201	TA8801AN	I.C(MONO-ANA)		
IC1203	MC14011BCP	I.C(DIGI-MOS)		
IC1204	LA7213	I.C(MONO-ANA)		
IC1260	M51321P	I.C(MONO-ANA)		
⚠ IC1401	LA7837	I.C(MONO-ANA)		
⚠ IC1602	AN5265	I.C.		
IC1701	MN1280-Q	I.C(DIGI-MOS)		
IC1702	MN1874862J7A3	I C		
IC1703	AT24C04-10PC	I C		
⚠ IC1921	STR30130	I.C.(H)		

⚠	Symbol No.	Part No.	Part Name	Description	Local
	I C				
	IC1931	LMT358N	I C		
	IC1932	LM2940CT-5.0	I.C(MONO-ANA)		
	O T H E R S				
		CEMS009-064	IC SOCKET		
	CF1101	CE41505-001	CERAMIC FILTER		
	CF1102	A74603-C-Z	CERAMIC FILTER		
	CF1104	FCR5.71M2SF3	CER.RESONATOR		
	CF1110	FTP47.25MA	CERAMIC TRAP		
	CF1501	CSB503F30-T2	C RESONATOR		
	CF1701	CSA12.0MT	C RESONATOR		
	CP1931	ICP-N25-Y	I.C.PROTECT		
⚠	F1901	QMF0007-5R0J1	FUSE	5A	
⚠	F1902	QMF0007-1R25J1	FUSE	1.25A	
⚠	F1911	QMF0007-1R25J1	FUSE	1.25A	
	FC1901-02	CEMG002-001Z	FUSE CLIP		
	FC1911	CEMG002-001Z	FUSE CLIP		
	K1707	CE41433-001Z	BEADS CORE		
	K1708	CE41169-002J2	BEADS CORE		
	K1902-03	CE41433-001Z	BEADS CORE		
	K1911-12	CE41433-001Z	BEADS CORE		
	K1914-15	CE41433-001Z	BEADS CORE		
⚠	LF1901	CELF007-001J4	LINE FILTER		
⚠	LF1902	CELF007-001J4	LINE FILTER		
	MD1270	CE42396-001	BPF.DL MODULE		
⚠	PC1901	TLP621(B)	I.C(PH.COUPLER)		
⚠	PC1931	PC817	I.C(PH COUPLER)		
⚠	RB1501	QRZ0101-005	R D BLOCK		
⚠	RY1901	CESK028-001	RELAY		
	S1201	QSL6A13-C01	LEVER SWITCH		
	SF1101	CE41706-201	SAW FILTER		
⚠	TH1901	CEKP006-001	P.THERMISTOR		
⚠	UV1001	CEEK255-B01	TUNER		
⚠	VA1901	ERZ-C10VK361G	VARISTOR		
	X1301	CE41651-001Z	X-TAL		

MAIN PW BOARD ASS'Y(SGL-1506A-H2) [TV-C2026(CA)]

Regarding the parts list for the main PW board ass'y [SGL-1506A-H2] of the model for canada, only the different parts from those of the model [SGL-1006A-H2] are described. For further details regarding the other parts, refer to the parts list of the model [SGL-1006A-H2] described on page 44 through page 48.

⚠	Symbol No.	Part No.		Part Name	Description
		America Model(US) SGL-1006A-H2	Canada Model(CA) SGL-1506A-H2		
⚠	C1902	QCZ9056-332M	QCZ9056-152M	C CAP.	1500pF
⚠	C1903	QCZ9056-332M	———	C CAP.	
⚠	C1905	QCZ9056-332M	QCZ9056-152M	C CAP.	1500pF
⚠	C1906	QCZ9056-332M	———	C CAP.	
⚠	C1941	QCZ9056-332M	———	C. CAP.	
⚠	C1942	QCZ9056-332M	QCZ9056-152M	C. CAP.	1500pF

MAIN PW BOARD ASS'Y(SGL-1710A-H2) [TV-C2126]

Regarding the parts list for the main PW board ass'y [SGL-1710A-H2] of the model for TV-C2126, only the different parts from those of the model [SGL-1006A-H2] are described. For further details regarding the other parts, refer to the parts list of the model [SGL-1006A-H2] described on page 44 through page 48.

⚠	Symbol No.	Part No.		Part Name	Description
		TV-C2026(US) SGL-1006A-H2	TV-C2126 SGL-1710A-H2		
⚠	C1902	QCZ9056-332M	QCZ9033-102M	C CAP.	1000pF
⚠	C1903	QCZ9056-332M	QCZ9056-102M	C CAP.	1000pF
⚠	C1905	QCZ9056-332M	QCZ9056-102M	C CAP.	1000pF
⚠	C1906	QCZ9056-332M	QCZ9056-102M	C CAP.	1000pF
⚠	C1941	QCZ9056-332M	QCZ9056-102M	C. CAP.	1000pF
⚠	C1942	QCZ9056-332M	QCZ9056-102M	C. CAP.	1000pF
⚠	LF1901	CELF007-001J4	CE41506-00BJ1	LINE FILTER	

CRT SOCKET PW BOARD ASS'Y (SGL-3002A-H2) [TV-C2026(US&CA)/TV-C2126]

⚠	Symbol No.	Part No.	Part Name	Description	Local
	V A R I A B L E R E S I S T O R				
	R3352	QVPE805-502H	V R	5kΩ B B CUT OFF	
	R3354	QVPE805-502H	V R	5kΩ B G CUT OFF	
	R3356	QVPE805-502H	V R	5kΩ B R CUT OFF	
	R3369	QVPE805-201H	V R	200 Ω B G DRIVE	
	R3371	QVPE805-201H	V R	200 Ω B R DRIVE	
	R E S I S T O R				
	R3357-59	QRG019J-153S	OM R	15kΩ 1W J	
	R3360-62	QRZ0111-472	C R	4.7kΩ	
	C A P A C I T O R				
	C3361	QCZ0121-102M	C CAP.	1000pF 3kV Z	
	C O I L				
	L3351	CELP055-271Z	PEAKING COIL	470μH	
	D I O D E				
	D3301	MTZJ2.7(B)-T2	ZENER DIODE		
	D3302	1SS133-T2	SI.DIODE		
	T R A N S I S T O R				
	Q3351-53	2SC4722(NP)	SI.TRANSISTOR		
	O T H E R S				
⚠	SK3001	CE42535-001J1	C R T SOCKET		

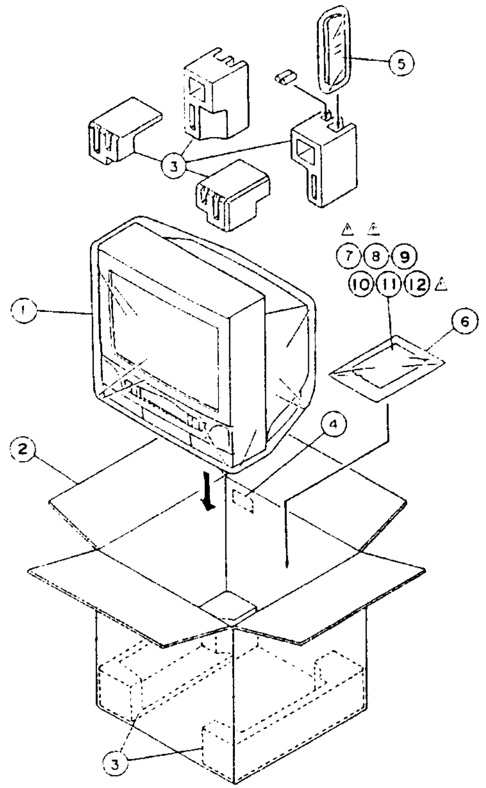
FRONT CONTROL PW BOARD ASS'Y (SGL-4001A-H2)
[TV-C2026 (US&CA) / TV-C2126]

⚠ Symbol No.	Part No.	Part Name	Description	Local
CAPACITOR				
C4266	QFVC1HJ-154Z	TF CAP.	0.15μF 50V J	
COIL				
L4260	CELP055-8R2Z	PEAKING COIL	8.2 Ω	
DIODE				
D4701	SLR-54VR-TC1	L.E.D.(RED)	POWER	
D4702	SLR-54DU-TC1	L.E.D.(ORG)	ON TIMER	
D4703	SLR-54MG-TC1	L.E.D.(GRN)	REC TIMER	
D4704	SLR-54VR-TC1	L.E.D.(RED)	REC	
D4705	1SS133-T2	SI.DIODE		
D4706	MTZJ15(A)-T2	ZENER DIODE		
D4707	MTZJ6.8(A)-T2	ZENER DIODE		
D4708	MTZJ5.6(A)-T2	ZENER DIODE		
TRANSISTOR				
Q4201	2SC1740S(QR)-T	SI.TRANSISTOR		
IC				
IC4701	TFMT5380	IR DETECT UNIT		
OTHERS				
	CM36103-001-H	LED HOLDER		
J4103	AX49607-020	MINI JACK	EARPHONE	
J4402	CEMN054-002	PIN JACK	AUDIO	
J4404	CEMN054-001	PIN JACK	VIDEO	
S4701	QSP1A11-C18Z	PUSH SWITCH	CHANNEL+	
S4702	QSP1A11-C18Z	PUSH SWITCH	CHANNEL-	
S4703	QSP1A11-C18Z	PUSH SWITCH	NENU	
S4704	QSP1A11-C18Z	PUSH SWITCH	FF	
S4705	QSP1A11-C18Z	PUSH SWITCH	VOL.+	
S4706	QSP1A11-C18Z	PUSH SWITCH	VOL.-	
S4707	QSP1A11-C18Z	PUSH SWITCH	POWER	
S4708	QSP1A11-C18Z	PUSH SWITCH	REW	
S4709	QSP1A11-C18Z	PUSH SWITCH	STOP/EJECT	
S4710	QSP1A11-C18Z	PUSH SWITCH	PLAY	
S4711	QSP1A11-C18Z	PUSH SWITCH	SP/LP	
S4712	QSP1A11-C18Z	PUSH SWITCH	REC/ITR	

REMOTE CONTROL UNIT PARTS LIST (RM-C143-1H)
[TV-C2026 (US&CA) / TV-C2126]

⚠ Ref.No.	Part No.	Part Name	Description	Local
	UR64EC1351	BATTERY COVER		

PACKING



PACKING PARTS LIST

⚠ Ref.No.	Part No.	Part Name	Description	Local
TV-C2026(US&CA)				
1	CP30697-005-H	POLY BAG		
2	CP11400-025-H	PACKING CASE		
3	CP11407-00A-H	CUSHION ASSY		
4	CM47385-00A	POS.SERIAL LABEL		
5	RM-C143-1H	RC HAND PIECE		
6	QPGA025-03505H	POLY BAG		
⚠ 7	CQ40004-001-H	INST BOOK		
⚠ 8	CQ40005-001-H	INST BOOK	(CA ONLY)	
9	BT-51006-1H	REGISTRATION C	(US ONLY)	
10	BT-52002-1-H	WARRANTY CARD	(CA ONLY)	
11	BT-20071B-H	SVC CENTER LIST	(CA ONLY)	
TV-C2126				
1	CP30697-005-H	POLY BAG		
2	CP11400-040-H	PACKING CASE		
3	CP11407-00A-H	CUSHION ASSY		
4	CM47385-00B-H	POS.SERIAL LABEL		
5	RM-C143-1H	RC HAND PIECE		
6	QPGA025-03505H	POLY BAG		
⚠ 12	CQ40088-001-H	INST BOOK		

PARTS LIST (VCR PART)

CAUTION

- The parts identified by the ⚠ symbol are important for the safety . Whenever replacing these parts, be sure to use specified ones to secure the safety .
- The parts not indicated in this Parts List and those which are filled with lines —— in the Parts No. columns will not be supplied .
- P. W. Board Ass'y will not be supplied, but those which are filled with the Parts No. in the Parts No. columns will be supplied .
- As a rule, the resistors and capacitors which are indicated as shown in "HOW TO EXPRESS PARTS NUMBERS OF STANDARD PARTS" are not shown in the list of the parts on the board .
  When ordering the service parts, confirm the resistance/rated power, capacitance/rated voltage, and type of the parts, then order by the part No. indicated according to "HOW TO EXPRESS PARTS NUMBERS OF STANDARD PARTS" .

PRINTED WIRING BOARD PARTS LIST

VCR MAIN PW BOARD ASS'Y

⚠ Symbol No.	Part No.	Part Name	Description		
VARIABLE RESISTOR					
VR001	EVNDXAA0BQ4	VR	47K	PGMM	
VR101	EVNDXAA0B14	VR	10K	CCDDL	
VR102	EVNDXAA0B13	VR	1K	CNR	
VR201	EVNDXAA0BE5	VR	220K	BIAS	
VR202	EVNDXAA0B14	VR	10K	PB LEVEL	
RESISTOR					
R001	QRSA08J-391YL	CH MG R	390Ω	1/10W	±5%
R002	QRSA08J-682YL	CH MG R	6.8KΩ	1/10W	±5%
R003	CRH100XFH11-J-2R2	OM R	2.2Ω	1W	±5%
R004	QRSA08J-473YL	CH MG R	47KΩ	1/10W	±5%
R005	QRSA08J-473YL	CH MG R	47KΩ	1/10W	±5%
R006	QRSA08J-473YL	CH MG R	47KΩ	1/10W	±5%
R007	QRSA08J-473YL	CH MG R	47KΩ	1/10W	±5%
R008	QRSA08J-473YL	CH MG R	47KΩ	1/10W	±5%
R009	QRSA08J-473YL	CH MG R	47KΩ	1/10W	±5%
R010	QRSA08J-473YL	CH MG R	47KΩ	1/10W	±5%
R011	QRSA08J-473YL	CH MG R	47KΩ	1/10W	±5%
R012	QRSA08J-473YL	CH MG R	47KΩ	1/10W	±5%
R013	QRSA08J-274YL	CH MG R	270KΩ	1/10W	±5%
R014	QRSA08J-274YL	CH MG R	270KΩ	1/10W	±5%
R016	QRSA08J-103YL	CH MG R	10KΩ	1/10W	±5%
R017	QRSA08J-103YL	CH MG R	10KΩ	1/10W	±5%
R018	QRSA08J-101YL	CH MG R	100Ω	1/10W	±5%
R019	QRSA08J-222YL	CH MG R	2.2KΩ	1/10W	±5%
R020	QRSA08J-101YL	CH MG R	100Ω	1/10W	±5%
R022	QRSA08J-473YL	CH MG R	47KΩ	1/10W	±5%
R023	QRSA08J-103YL	CH MG R	10KΩ	1/10W	±5%
R024	QRSA08J-103YL	CH MG R	10KΩ	1/10W	±5%
R025	QRSA08J-220YL	CH MG R	22Ω	1/10W	±5%
R026	QRSA08J-391YL	CH MG R	390Ω	1/10W	±5%
R027	QRSA08J-223YL	CH MG R	22KΩ	1/10W	±5%
R028	QRSA08J-222YL	CH MG R	2.2KΩ	1/10W	±5%
R029	QRSA08J-220YL	CH MG R	22Ω	1/10W	±5%
R030	QRSA08J-331YL	CH MG R	330Ω	1/10W	±5%
R031	QRSA08J-103YL	CH MG R	10KΩ	1/10W	±5%
R032	QRSA08J-103YL	CH MG R	10KΩ	1/10W	±5%
R033	QRSA08J-683YL	CH MG R	68KΩ	1/10W	±5%
R034	QRSA08J-104YL	CH MG R	100KΩ	1/10W	±5%
R035	QRSA08J-102YL	CH MG R	1KΩ	1/10W	±5%
R036	QRSA08J-105YL	CH MG R	1MΩ	1/10W	±5%
R037	QRSA08J-103YL	CH MG R	10KΩ	1/10W	±5%
R038	QRSA08J-284YL	CH MG R	280KΩ	1/10W	±5%
R039	QRSA08J-223YL	CH MG R	22KΩ	1/10W	±5%
R040	QRSA08J-473YL	CH MG R	47KΩ	1/10W	±5%
R041	QRSA08J-104YL	CH MG R	100KΩ	1/10W	±5%
R042	QRSA08J-104YL	CH MG R	100KΩ	1/10W	±5%
R043	QRSA08J-822YL	CH MG R	8.2KΩ	1/10W	±5%
R044	QRSA08J-823YL	CH MG R	82KΩ	1/10W	±5%
R045	QRSA08J-154YL	CH MG R	150KΩ	1/10W	±5%
R046	QRSA08J-564YL	CH MG R	560KΩ	1/10W	±5%
R047	QRSA08J-472YL	CH MG R	4.7KΩ	1/10W	±5%
R048	QRSA08J-473YL	CH MG R	47KΩ	1/10W	±5%
R049	QRSA08J-103YL	CH MG R	10KΩ	1/10W	±5%
R050	QRSA08J-153YL	CH MG R	15KΩ	1/10W	±5%
R051	QRSA08J-153YL	CH MG R	15KΩ	1/10W	±5%
R053	QRSA08J-104YL	CH MG R	100KΩ	1/10W	±5%
R054	QRSA08J-223YL	CH MG R	22KΩ	1/10W	±5%
R055	QRSA08J-223YL	CH MG R	22KΩ	1/10W	±5%
R056	QRSA08J-474YL	CH MG R	470KΩ	1/10W	±5%
R057	QRSA08J-222YL	CH MG R	2.2KΩ	1/10W	±5%
R058	QRSA08J-222YL	CH MG R	2.2KΩ	1/10W	±5%
R059	ERJ6GEY0R00V	CH MG R	0Ω	1/10W	
R070	QRSA08J-103YL	CH MG R	10KΩ	1/10W	±5%
R071	QRSA08J-104YL	CH MG R	100KΩ	1/10W	±5%
R072	QRSA08J-105YL	CH MG R	1MΩ	1/10W	±5%
R074	QRSA08J-681YL	CH MG R	680Ω	1/10W	±5%
R076	QRSA08J-104YL	CH MG R	100KΩ	1/10W	±5%
R077	QRSA08J-104YL	CH MG R	100KΩ	1/10W	±5%
R078	QRSA08J-104YL	CH MG R	100KΩ	1/10W	±5%
R079	QRSA08J-101YL	CH MG R	100Ω	1/10W	±5%
R080	QRSA08J-222YL	CH MG R	2.2KΩ	1/10W	±5%
R081	QRSA08J-102YL	CH MG R	1KΩ	1/10W	±5%
⚠ R082	ERQ16NK0R1	F R	0.1Ω	1/6W	±10%
⚠ R083	ERQ16NK0R1	F R	0.1Ω	1/6W	±10%
R084	QRSA08J-222YL	CH MG R	2.2KΩ	1/10W	±5%
R085	QRSA08J-272YL	CH MG R	2.7KΩ	1/10W	±5%
R086	QRSA08J-393YL	CH MG R	39KΩ	1/10W	±5%
R087	QRSA08J-101YL	CH MG R	100Ω	1/10W	±5%
R088	QRSA08J-102YL	CH MG R	1KΩ	1/10W	±5%

△ Symbol No.	Part No.	Part Name	Description		
R090	QRSA08J-471YL	CH MG R	470Ω	1/10W	±5%
R091	QRSA08J-391YL	CH MG R	390Ω	1/10W	±5%
R093	ERJ6GEY0R00V	CH MG R	0Ω	1/10W	
R094	QRSA08J-823YL	CH MG R	82KΩ	1/10W	±5%
R095	QRSA08J-104YL	CH MG R	100KΩ	1/10W	±5%
R097	QRSA08J-101YL	CH MG R	100Ω	1/10W	±5%
R098	QRSA08J-101YL	CH MG R	100Ω	1/10W	±5%
R099	QRSA08J-223YL	CH MG R	22KΩ	1/10W	±5%
R101	QRSA08J-220YL	CH MG R	22Ω	1/10W	±5%
R102	QRSA08J-222YL	CH MG R	2.2KΩ	1/10W	±5%
R103	QRSA08J-223YL	CH MG R	22KΩ	1/10W	±5%
R104	QRSA08J-223YL	CH MG R	22KΩ	1/10W	±5%
R105	QRSA08J-220YL	CH MG R	22Ω	1/10W	±5%
R106	QRSA08J-122YL	CH MG R	1.2KΩ	1/10W	±5%
R113	QRSA08J-682YL	CH MG R	6.8KΩ	1/10W	±5%
R114	QRSA08J-682YL	CH MG R	6.8KΩ	1/10W	±5%
R117	QRSA08J-822YL	CH MG R	8.2KΩ	1/10W	±5%
R118	QRSA08J-222YL	CH MG R	2.2KΩ	1/10W	±5%
R120	QRSA08J-101YL	CH MG R	100Ω	1/10W	±5%
R121	QRSA08J-222YL	CH MG R	2.2KΩ	1/10W	±5%
R122	QRSA08J-222YL	CH MG R	2.2KΩ	1/10W	±5%
R123	QRSA08J-103YL	CH MG R	10KΩ	1/10W	±5%
R124	QRSA08J-222YL	CH MG R	2.2KΩ	1/10W	±5%
R125	QRSA08J-103YL	CH MG R	10KΩ	1/10W	±5%
R126	QRSA08J-472YL	CH MG R	4.7KΩ	1/10W	±5%
R127	QRSA08J-750YL	CH MG R	75Ω	1/10W	±5%
R128	QRSA08J-101YL	CH MG R	100Ω	1/10W	±5%
R129	R20-R-02-J-100	C R	10Ω	1/6W	±5%
R130	R20-R-02-J-181	C R	180Ω	1/6W	±5%
R131	QRSA08J-820YL	CH MG R	82Ω	1/10W	±5%
R132	QRSA08J-101YL	CH MG R	100Ω	1/10W	±5%
R138	QRSA08J-102YL	CH MG R	1KΩ	1/10W	±5%
R139	QRSA08J-561YL	CH MG R	560Ω	1/10W	±5%
R141	QRSA08J-472YL	CH MG R	4.7KΩ	1/10W	±5%
R142	QRSA08J-122YL	CH MG R	1.2KΩ	1/10W	±5%
R144	QRSA08J-222YL	CH MG R	2.2KΩ	1/10W	±5%
R145	QRSA08J-681YL	CH MG R	680Ω	1/10W	±5%
R147	QRSA08J-682YL	CH MG R	6.8KΩ	1/10W	±5%
R148	QRSA08J-682YL	CH MG R	6.8KΩ	1/10W	±5%
R149	QRSA08J-822YL	CH MG R	8.2KΩ	1/10W	±5%
R150	QRSA08J-472YL	CH MG R	4.7KΩ	1/10W	±5%
R151	QRSA08J-101YL	CH MG R	100Ω	1/10W	±5%
R152	QRSA08J-222YL	CH MG R	2.2KΩ	1/10W	±5%
R153	QRSA08J-822YL	CH MG R	8.2KΩ	1/10W	±5%
R154	QRSA08J-273YL	CH MG R	27KΩ	1/10W	±5%
R155	QRSA08J-220YL	CH MG R	22Ω	1/10W	±5%
R156	QRSA08J-105YL	CH MG R	1MΩ	1/10W	±5%
R157	QRSA08J-823YL	CH MG R	82KΩ	1/10W	±5%
R158	QRSA08J-102YL	CH MG R	1KΩ	1/10W	±5%
R159	QRSA08J-102YL	CH MG R	1KΩ	1/10W	±5%
R160	QRSA08J-331YL	CH MG R	330Ω	1/10W	±5%
R161	QRSA08J-220YL	CH MG R	22Ω	1/10W	±5%
R162	QRSA08J-102YL	CH MG R	1KΩ	1/10W	±5%
R163	QRSA08J-121YL	CH MG R	120Ω	1/10W	±5%
R164	QRSA08J-471YL	CH MG R	470Ω	1/10W	±5%
R165	QRSA08J-102YL	CH MG R	1KΩ	1/10W	±5%
R166	QRSA08J-391YL	CH MG R	390Ω	1/10W	±5%
R167	QRSA08J-821YL	CH MG R	820Ω	1/10W	±5%
R168	QRSA08J-221YL	CH MG R	220Ω	1/10W	±5%
R175	QRSA08J-272YL	CH MG R	2.7KΩ	1/10W	±5%
R176	QRSA08J-102YL	CH MG R	1KΩ	1/10W	±5%
R177	QRSA08J-153YL	CH MG R	15KΩ	1/10W	±5%
R201	QRSA08J-470YL	CH MG R	47Ω	1/10W	±5%
R202	QRSA08J-223YL	CH MG R	22KΩ	1/10W	±5%
R203	QRSA08J-153YL	CH MG R	15KΩ	1/10W	±5%
R204	QRSA08J-180YL	CH MG R	18Ω	1/10W	±5%
R205	QRSA08J-303YL	CH MG R	30KΩ	1/10W	±5%
R206	QRSA08J-100YL	CH MG R	10Ω	1/10W	±5%
R207	QRSA08J-103YL	CH MG R	10KΩ	1/10W	±5%
R208	QRSA08J-102YL	CH MG R	1KΩ	1/10W	±5%
R209	QRSA08J-103YL	CH MG R	10KΩ	1/10W	±5%
R210	QRSA08J-153YL	CH MG R	15KΩ	1/10W	±5%
R211	QRSA08J-221YL	CH MG R	220Ω	1/10W	±5%
R212	QRSA08J-121YL	CH MG R	120Ω	1/10W	±5%
R213	QRSA08J-121YL	CH MG R	120Ω	1/10W	±5%
R214	QRSA08J-334YL	CH MG R	330KΩ	1/10W	±5%
R215	QRSA08J-102YL	CH MG R	1KΩ	1/10W	±5%
R216	QRSA08J-683YL	CH MG R	68KΩ	1/10W	±5%
R217	QRSA08J-105YL	CH MG R	1MΩ	1/10W	±5%
R218	QRSA08J-393YL	CH MG R	39KΩ	1/10W	±5%
R219	QRSA08J-103YL	CH MG R	10KΩ	1/10W	±5%
R221	QRSA08J-683YL	CH MG R	68KΩ	1/10W	±5%
R222	QRSA08J-153YL	CH MG R	15KΩ	1/10W	±5%
R224	QRSA08J-103YL	CH MG R	10KΩ	1/10W	±5%
R225	QRSA08J-103YL	CH MG R	10KΩ	1/10W	±5%

△ Symbol No.	Part No.	Part Name	Description		
R226	QRSA08J-472YL	CH MG R	4.7KΩ	1/10W	±5%
R227	QRSA08J-103YL	CH MG R	10KΩ	1/10W	±5%
R228	QRSA08J-180YL	CH MG R	18Ω	1/10W	±5%
R229	R20-R-02-J-100	C R	10Ω	1/6W	±5%
R230	QRSA08J-104YL	CH MG R	100KΩ	1/10W	±5%
R231	QRSA08J-221YL	CH MG R	220Ω	1/10W	±5%
R232	QRSA08J-103YL	CH MG R	10KΩ	1/10W	±5%
CAPACITOR					
C001	QFLA1HJ-104M	FILM CAP.	0.1μF	50V	±5%
C002	NCB21HK-103AY	CH C CAP.	0.01μF	50V	±10%
C003	QFLA1HJ-104M	FILM CAP.	0.1μF	50V	±5%
C004	NCT03CH-101AY	CH C CAP.	100pF	50V	±5%
C005	NCT03CH-101AY	CH C CAP.	100pF	50V	±5%
C006	NCT03CH-101AY	CH C CAP.	100pF	50V	±5%
C007	NCT03CH-101AY	CH C CAP.	100pF	50V	±5%
C008	NCB21HK-103AY	CH C CAP.	0.01μF	50V	±10%
C009	ECEA1CKG100	E CAP.	10μF	16V	±20%
C010	NCB21HK-103AY	CH C CAP.	0.01μF	50V	±10%
C011	NCB21HK-103AY	CH C CAP.	0.01μF	50V	±10%
C012	NCB21HK-103AY	CH C CAP.	0.01μF	50V	±10%
C013	QETA1AM-227	E CAP.	220μF	10V	±20%
C014	ECUV1H472JBG	CH C CAP.	4700pF	50V	±10%
C015	ECEA1HKG010	E CAP.	1μF	50V	±20%
C016	NCB21HK-103AY	CH C CAP.	0.01μF	50V	±10%
C017	QETA1CM-107	E CAP.	100μF	16V	±20%
C018	NCB21HK-103AY	CH C CAP.	0.01μF	50V	±10%
C019	QETA1AM-227	E CAP.	220μF	10V	±20%
C020	ECUV1E104ZFX	CH C CAP.	0.1μF	25V	+80%. −20%
C021	QETA1AM-227	E CAP.	220μF	10V	±20%
C022	ECEA1CKG220	E CAP.	22μF	16V	±20%
C023	ECEA1CKG220	E CAP.	22μF	16V	±20%
C024	ECUV1H102KBN	CH C CAP.	1000pF	50V	±10%
C025	ECEA1HKG010	E CAP.	1μF	50V	±20%
C026	ECEA1CKG220	E CAP.	22μF	16V	±20%
C027	ECEA1CKG220	E CAP.	22μF	16V	±20%
C028	ECEA1CKG220	E CAP.	22μF	16V	±20%
C029	ECUV1H222JBN	CH C CAP.	2200pF	50V	±10%
C030	ECUV1H102KBN	CH C CAP.	1000pF	50V	±10%
C031	ECEA1HKG0R1	E CAP.	0.1μF	50V	±20%
C033	ECEA1HKG0R1	E CAP.	0.1μF	50V	±20%
C034	ECEA1HKG010	E CAP.	1μF	50V	±20%
C035	ECUV1E223KBX	CH C CAP.	0.022μF	25V	±10%
C036	ECEA1CKG220	E CAP.	22μF	16V	±20%
C037	NCB21HK-103AY	CH C CAP.	0.01μF	50V	±10%
C038	NCB21HK-103AY	CH C CAP.	0.01μF	50V	±10%
C039	ECEA1HKG010	E CAP.	1μF	50V	±20%
C040	NCB21HK-103AY	CH C CAP.	0.01μF	50V	±10%
C041	ECEA1HKG010	E CAP.	1μF	50V	±20%
C042	NCT03CH-220AY	CH C CAP.	22pF	50V	±5%
C043	NCB21HK-103AY	CH C CAP.	0.01μF	50V	±10%
C044	NCT03CH-221AY	CH C CAP.	220pF	50V	±5%
C045	ECEA1CKG470	E CAP.	47μF	16V	±20%
C046	ECUV1E223KBX	CH C CAP.	0.022μF	25V	±10%
C047	ECUV1H473ZFX	CH C CAP.	0.047μF	50V	+80%. −20%
C048	ECEA1CKG220	E CAP.	22μF	16V	±20%
C049	ECUV1H473ZFX	CH C CAP.	0.047μF	50V	+80%. −20%
C050	NCT03CH-220AY	CH C CAP.	22pF	50V	±5%
C052	NCB21HK-103AY	CH C CAP.	0.01μF	50V	±10%
C059	ECUV1E223KBX	CH C CAP.	0.022μF	25V	±10%
C060	QETA1CM-107	E CAP.	100μF	16V	±20%
C061	ECEA1CKG100	E CAP.	10μF	16V	±20%
C062	CETA1CM-337	E CAP.	330μF	16V	±20%
C063	ECEA1CKG100	E CAP.	10μF	16V	±20%
C064	QETA1CM-107	E CAP.	100μF	16V	±20%
C066	NCB21HK-103AY	CH C CAP.	0.01μF	50V	±10%
C067	QETA1AM-227	E CAP.	220μF	10V	±20%
C068	ECUV1E104ZFX	CH C CAP.	0.1μF	25V	+80%. −20%
C069	NCT03CH-270AY	CH C CAP.	27pF	50V	±5%
C069	ECUV1H471JG	CH C CAP.	470pF	50V	±5%
C070	ECUV1H821JCX	CH C CAP.	820pF	50V	±5%
C071	ECUV1H471JG	CH C CAP.	470pF	50V	±5%
C072	ERJ6GEY0R00V	CH MG R	0Ω	1/10W	
C073	ECUV1H471JG	CH C CAP.	470pF	50V	±5%
C074	NCT03CH-221AY	CH C CAP.	220pF	50V	±5%
C075	ECUV1E223KBX	CH C CAP.	0.022μF	25V	±10%
C076	ECUV1E223KBX	CH C CAP.	0.022μF	25V	±10%
C077	ECEA1HKG010	E CAP.	1μF	50V	±20%
C080	NCB21HK-103AY	CH C CAP.	0.01μF	50V	±10%
C081	ECUV1E223KBX	CH C CAP.	0.022μF	25V	±10%
C082	ECEA1EKN010	BP E CAP.	1μF	50V	±20%
C084	ECUV1E104ZFX	CH C CAP.	0.1μF	25V	+80%. −20%
C101	NCB21HK-103AY	CH C CAP.	0.01μF	50V	±10%
C102	NCB21HK-103AY	CH C CAP.	0.01μF	50V	±10%
C103	NCT03CH-221AY	CH C CAP.	220pF	50V	±5%

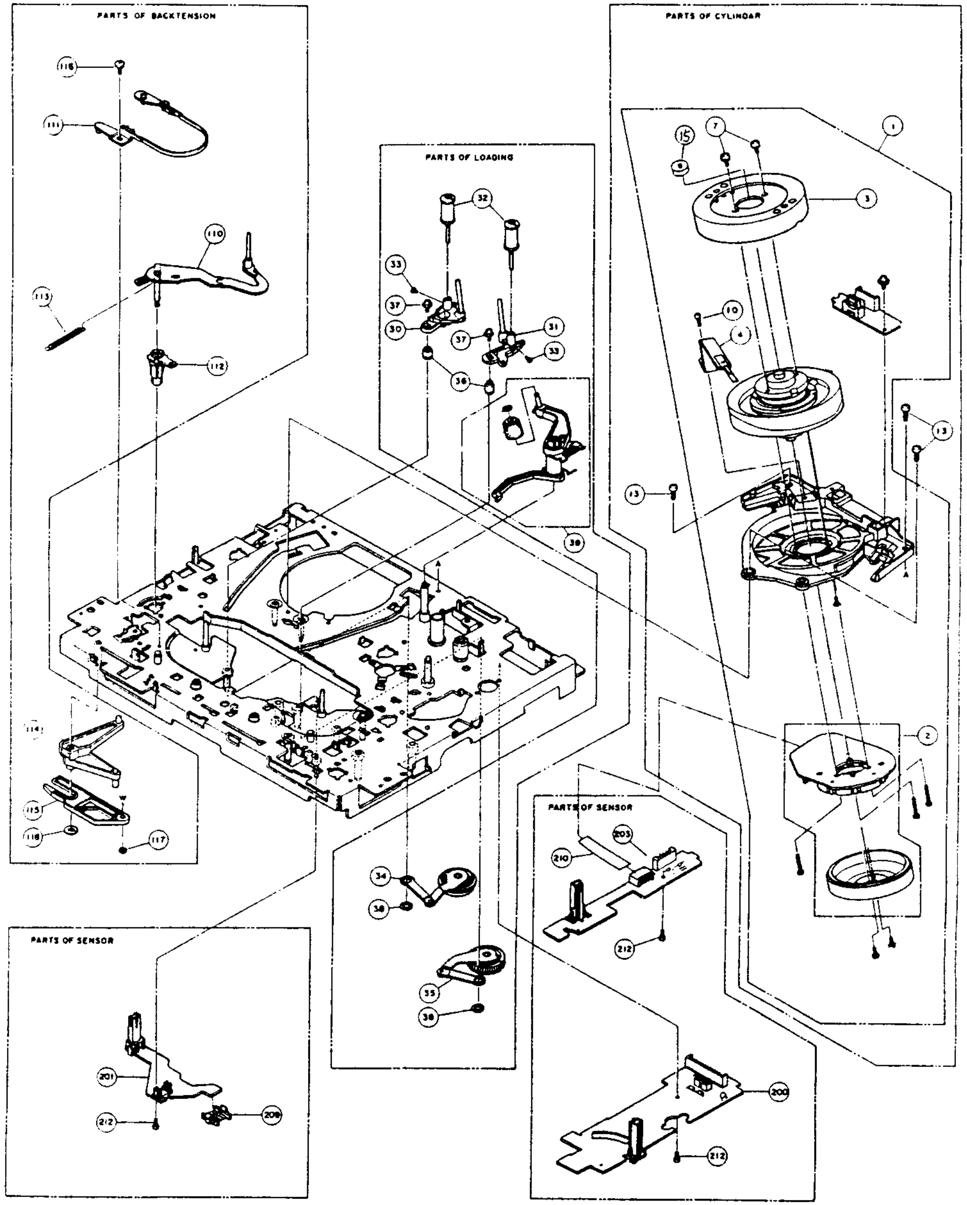
⚠ Symbol No.	Part No.	Part Name	Description		
C105	NCT03CH-151AY	CH C CAP.	150pF	50V	±5%
C106	NCT03CH-560AY	CH C CAP.	56pF	50V	±5%
C111	NCB21HK-103AY	CH C CAP.	0.01μF	50V	±10%
C112	NCT03CH-3R0AY	CH C CAP.	3pF	50V	±0.25%
C115	NCB21HK-103AY	CH C CAP.	0.01μF	50V	±10%
C116	ECEA1CKG100	E CAP.	10μF	16V	±20%
C117	NCB21HK-103AY	CH C CAP.	0.01μF	50V	±10%
C118	ECEA1CKG470	E CAP.	47μF	16V	±20%
C119	NCB21HK-103AY	CH C CAP.	0.01μF	50V	±10%
C120	ECEA1CKG100	E CAP.	10μF	16V	±20%
C121	NCB21HK-103AY	CH C CAP.	0.01μF	50V	±10%
C122	ECEA1CKG470	E CAP.	47μF	16V	±20%
C123	ECUV1H473ZFX	CH C CAP.	0.047μF	50V	+80%. −20%
C124	NCB21HK-103AY	CH C CAP.	0.01μF	50V	±10%
C125	ECEA1HKG2R2	E CAP.	2.2μF	50V	±20%
C126	ECEA1HKG010	E CAP.	1μF	50V	±20%
C127	ECUV1H102KBN	CH C CAP.	1000pF	50V	±10%
C128	NCB21HK-103AY	CH C CAP.	0.01μF	50V	±10%
C129	NCB21HK-103AY	CH C CAP.	0.01μF	50V	±10%
C130	ECEA1CKG100	E CAP.	10μF	16V	±20%
C131	ECEA1CKG100	E CAP.	10μF	16V	±20%
C132	QETA1CM-476	E CAP.	470μF	16V	±20%
C133	NCB21HK-103AY	CH C CAP.	0.01μF	50V	±10%
C134	NCB21HK-103AY	CH C CAP.	0.01μF	50V	±10%
C136	NCT03CH-181AY	CH C CAP.	180pF	50V	±5%
C137	ECEA1VKG4R7	E CAP.	4.7μF	35V	±20%
C138	NCT03CH-391AY	CH C CAP.	390pF	50V	±5%
C139	ECUV1H100CCN	CH C CAP.	10pF	50V	±0.5PF
C140	NCT03CH-101AY	CH C CAP.	100pF	50V	±5%
C141	ECEA1CKG100	E CAP.	10μF	16V	±20%
C142	ECEA1CKG100	E CAP.	10μF	16V	±20%
C143	ECEA1VKG4R7	E CAP.	4.7μF	35V	±20%
C144	NCB21HK-103AY	CH C CAP.	0.01μF	50V	±10%
C145	NCB21HK-103AY	CH C CAP.	0.01μF	50V	±10%
C146	ECUV1E223KBX	CH C CAP.	0.022μF	25V	±10%
C147	ECEA1HKG010	E CAP.	1μF	50V	±20%
C148	NCB21HK-103AY	CH C CAP.	0.01μF	50V	±10%
C149	ECEA1HKG010	E CAP.	1μF	50V	±20%
C150	NCB21HK-103AY	CH C CAP.	0.01μF	50V	±10%
C151	ECEA1CKG100	E CAP.	10μF	16V	±20%
C152	ECEA1HKG010	E CAP.	1μF	50V	±20%
C153	ECUV1H102KBN	CH C CAP.	1000pF	50V	±10%
C154	NCB21HK-103AY	CH C CAP.	0.01μF	50V	±10%
C155	ECUV1E104ZFX	CH C CAP.	0.1μF	25V	+80%. −20%
C156	NCB21HK-103AY	CH C CAP.	0.01μF	50V	±10%
C157	ECUV1H471JG	CH C CAP.	470pF	50V	±5%
C159	NCB21HK-103AY	CH C CAP.	0.01μF	50V	±10%
C160	NCT03CH-390AY	CH C CAP.	39pF	50V	±5%
C161	NCB21HK-103AY	CH C CAP.	0.01μF	50V	±10%
C162	NCT03CH-560AY	CH C CAP.	56pF	50V	±5%
C163	NCB21HK-103AY	CH C CAP.	0.01μF	50V	±10%
C164	NCT03CH-221AY	CH C CAP.	220pF	50V	±5%
C165	NCT03CH-180AY	CH C CAP.	18pF	50V	±5%
C166	ECUV1H471JG	CH C CAP.	470pF	50V	±5%
C168	ECUV1H102KBN	CH C CAP.	1000pF	50V	±10%
C171	ECUV1E223KBX	CH C CAP.	0.022μF	25V	±10%
C172	ECUV1E223KBX	CH C CAP.	0.022μF	25V	±10%
C173	ECUV1E104ZFX	CH C CAP.	0.1μF	25V	+80%. −20%
C201	QFLC2AJ-473MZ	FILM CAP.	0.047μF	100V	±5%
C202	NCB21HK-103AY	CH C CAP.	0.01μF	50V	±10%
C203	NCB21HK-103AY	CH C CAP.	0.01μF	50V	±10%
C204	NCT03CH-221AY	CH C CAP.	220pF	50V	±5%
C205	ECEA1VKG4R7	E CAP.	4.7μF	35V	±20%
C206	ECEA1CKG100	E CAP.	10μF	16V	±20%
C207	ECUV1E223KBX	CH C CAP.	0.022μF	25V	±10%
C208	QETA1CM-107	E CAP.	100μF	16V	±20%
C209	ECUV1E223KBX	CH C CAP.	0.022μF	25V	±10%
C210	ECEA1CKG220	E CAP.	22μF	16V	±20%
C211	ECEA1VKG4R7	E CAP.	4.7μF	35V	±20%
C212	ECEA1CKG100	E CAP.	10μF	16V	±20%
C213	ECEA1HKG010	E CAP.	1μF	50V	±20%
C214	QFLA1HJ-472M	FILM CAP.	4700pF	50V	±5%
C215	ECUV1E223KBX	CH C CAP.	0.022μF	25V	±10%
C216	ECEA1VKG4R7	E CAP.	4.7μF	35V	±20%
C217	ECUV1H122JX	CH C CAP.	1200pF	50V	±5%
C218	QETA1CM-107	E CAP.	100μF	16V	±20%
C220	ECEA1HKGR33	E CAP.	0.33μF	50V	±20%
C221	ECEA1CKG100	E CAP.	10μF	16V	±20%
C223	QFLA1HJ-103M	FILM CAP.	0.01μF	50V	±5%
C224	QFLA1HJ-102M	FILM CAP.	1000pF	50V	±5%
C224	ECEA1HKG0R1	E CAP.	0.1μF	50V	±20%
C226	ECEA1EKG330	E CAP.	33μF	25V	±20%
C232	ECEA1EKG330	E CAP.	33μF	25V	±20%
C233	ECEA1CKG100	E CAP.	10μF	16V	±20%
C235	QFLA1HJ-102M	FILM CAP.	1000pF	50V	±5%

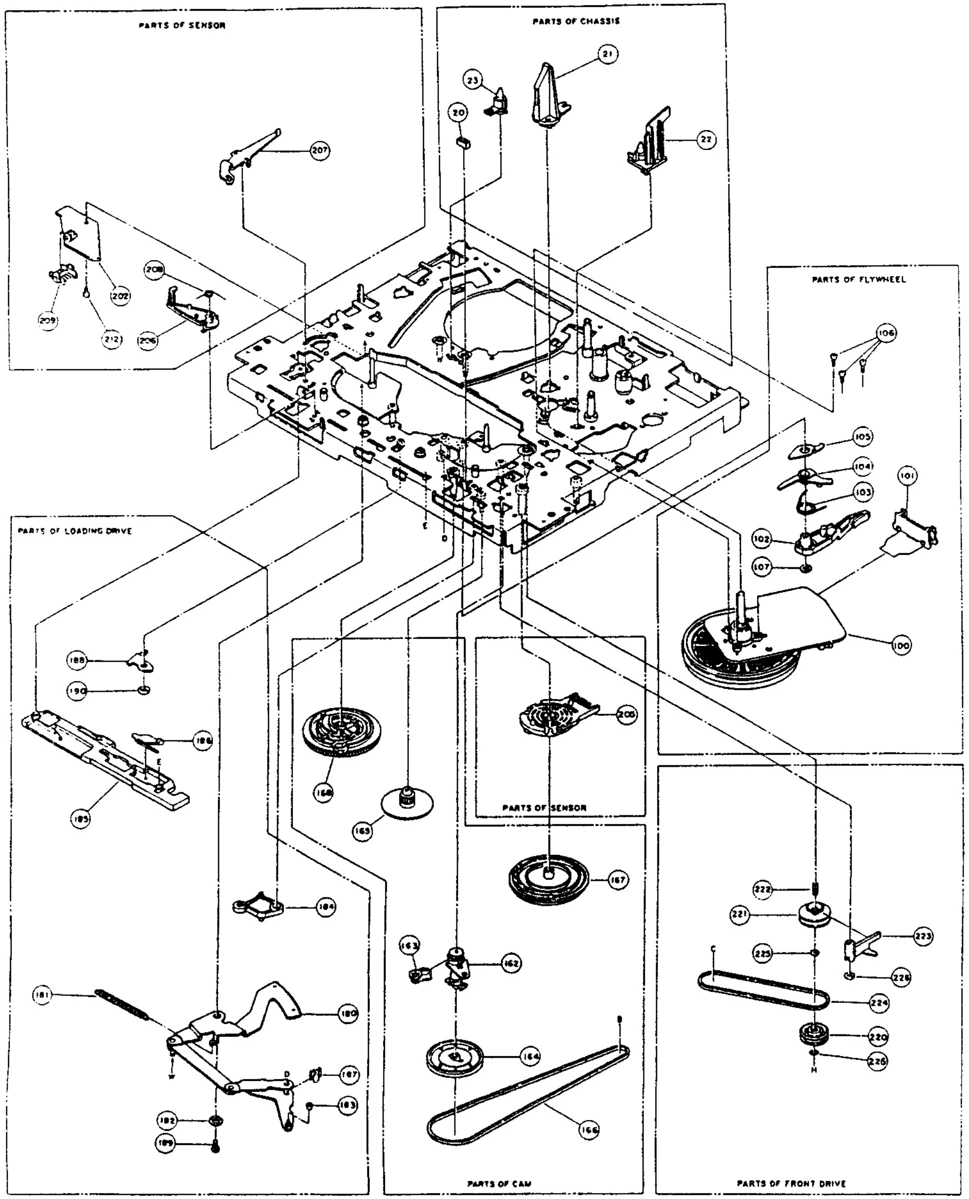
⚠ Symbol No.	Part No.	Part Name	Description		
CAPACITOR					
C236	ECQB1H202JF	FILM CAP.	2200pF	50V	±5%
C237	QFLA1HJ-102M	FILM CAP.	1000pF	50V	±5%
C238	ECEA1CKG100	E CAP.	10μF	16V	±20%
C239	ECEA1CKG470	E CAP.	47μF	16V	±20%
C240	ECEA1CKG100	E CAP.	10μF	16V	±20%
C241	ECEA1VKG4R7	E CAP.	4.7μF	35V	±20%
C242	ECUV1E223KBX	CH C CAP.	0.022μF	25V	±10%
C243	ECUV1H272JX	CH C CAP.	2700pF	50V	±5%
COIL					
L001	TSL0707-100K1R9	COIL	10μH		
L002	TSL0707-4R7M2R6	COIL	4.7μH		
L003	TSL0707-4R7M2R6	COIL	4.7μH		
L004	TSL0707-4R7M2R6	COIL	4.7μH		
L005	EL0606RA-101K	COIL	100μH		
L101	LF5.0S221J	COIL	220μH		
L103	LF5.0S820J	COIL	82μH		
L104	LF5.0S100J	COIL	10μH		
L106	LF5.0S330J	COIL	33μH		
L109	LF5.0S150J	COIL	15μH		
L111	EL0606RA-100K	COIL	10μH		
L112	EL0606RA-100K	COIL	10μH		
L113	LF5.0S150J	COIL	15μH		
L117	LF5.0S221J	COIL	220μH		
L201	KGEL-2	COIL			
L202	EL0606RA-560K	COIL	5.6μH		
L203	187LY-223(J)	COIL	22mH		
DIODE					
D001	MA165	SI. DIODE			
D002	MA165	SI. DIODE			
D003	MA165	SI. DIODE			
D004	MA165	SI. DIODE			
D005	MA4075-M	ZENER DIODE			
D007	MA165	SI. DIODE			
D008	MA165	SI. DIODE			
D102	MA165	SI. DIODE			
D103	MA165	SI. DIODE			
D104	MA165	SI. DIODE			
D107	MA165	SI. DIODE			
D108	MA165	SI. DIODE			
D109	MA165	SI. DIODE			
TRANSISTOR					
Q001	2SB1274(S)	SI. TRANSISTOR			
Q002	DTC144EK(R)	DIGI. TRANSISTOR			
Q003	2SA933SLN(S)	SI. TRANSISTOR			
Q004	2SA1037K(A)	SI. TRANSISTOR			
Q006	DTC124EK(R)	DIGI. TRANSISTOR			
Q101	2SC2412K(S)	SI. TRANSISTOR			
Q102	DTC124EK(R)	DIGI. TRANSISTOR			
Q105	2SC2412K(S)	SI. TRANSISTOR			
Q107	2SC2412K(S)	SI. TRANSISTOR			
Q108	2SA933SLN(S)	SI. TRANSISTOR			
Q109	2SA1037K(A)	SI. TRANSISTOR			
Q110	2SC2412K(S)	SI. TRANSISTOR			
Q111	DTA124EK(R)	DIGI. TRANSISTOR			
Q112	2SC2412K(S)	SI. TRANSISTOR			
Q113	2SA1037K(A)	SI. TRANSISTOR			
Q201	2SC2001(K)	SI. TRANSISTOR			
Q202	DTA124EK(R)	DIGI. TRANSISTOR			
Q203	DTC124EK(R)	DIGI. TRANSISTOR			
IC					
IC001	MN6750245KAAC3	IC(MPU)			
IC002	UPC358C	IC			
IC003	BA6209	IC			
IC004	MN13801R	IC			
IC101	LA7420	IC			
IC102	LC89960	IC			
IC201	LA7295	IC			
OTHERS					
DL101	EFDENB645B35	DELAY LINE	1HDL		
FL101	KGEF-2	LPF	8.8MHz		
X001	HC-49/U8.0	CRYSTAL	8.0MHz		
X101	HC-49/U3.58	CRYSTAL	3.58MHz		

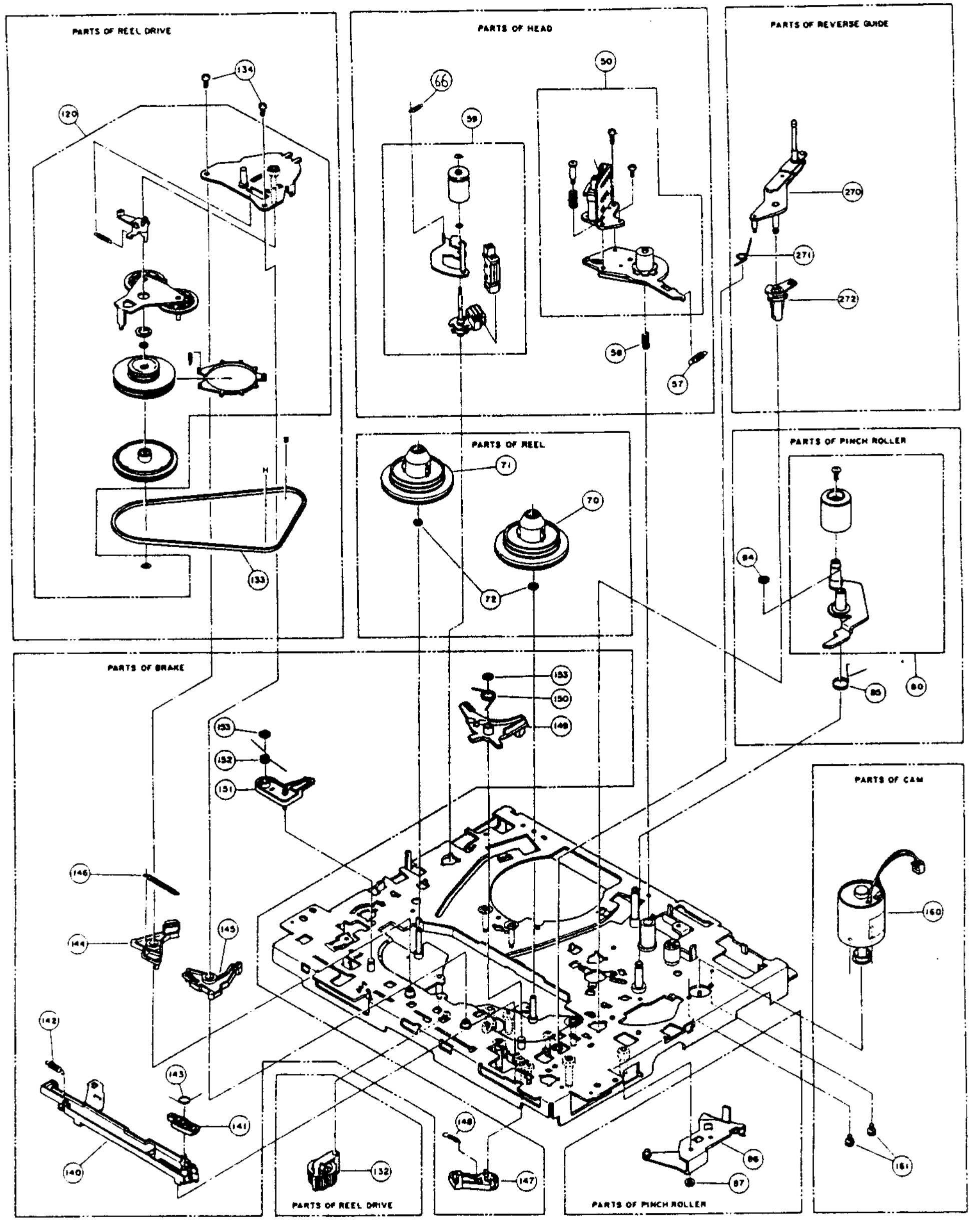
PRE/REC PW BOARD ASS'Y

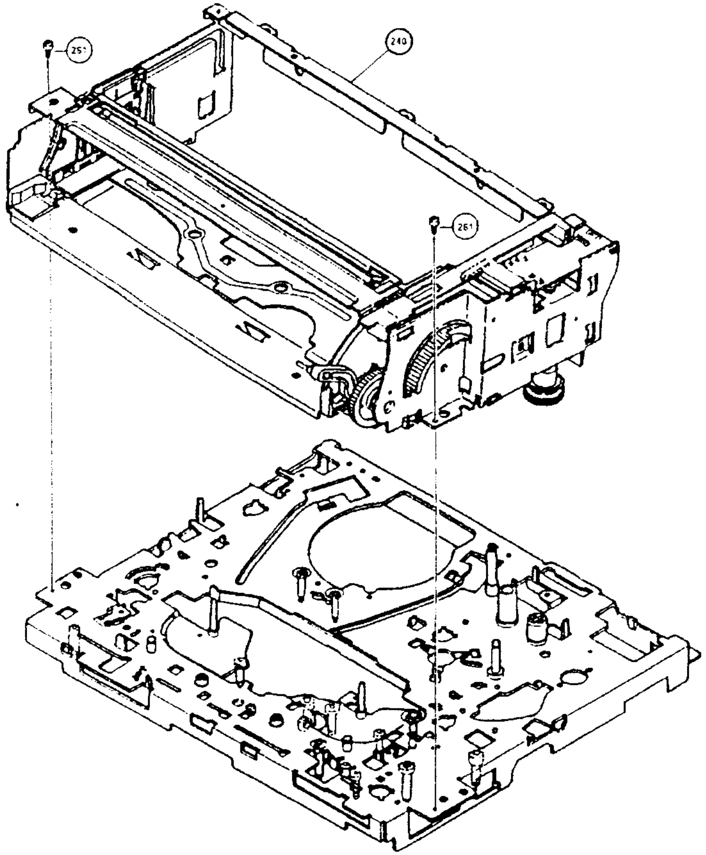
⚠ Symbol No.	Part No.	Part Name	Description		
RESISTOR					
R301	QRSA08J-223YL	CH MG R	22kΩ	1/10W	±5%
R302	QRSA08J-682YL	CH MG R	6.8kΩ	1/10W	±5%
R303	QRSA08J-103YL	CH MG R	10kΩ	1/10W	±5%
R304	QRSA08J-153YL	CH MG R	15kΩ	1/10W	±5%
R305	QRSA08J-473YL	CH MG R	47kΩ	1/10W	±5%
R306	QRSA08J-100YL	CH MG R	22Ω	1/10W	±5%
R307	QRSA08J-100YL	CH MG R	22Ω	1/10W	±5%
R308	QRSA08J-102YL	CH MG R	1kΩ	1/10W	±5%
R309	QRSA08J-123YL	CH MG R	12kΩ	1/10W	±5%
R310	QRSA08J-123YL	CH MG R	12kΩ	1/10W	±5%
R311	QRSA08J-391YL	CH MG R	390Ω	1/10W	±5%
R312	QRSA08J-391YL	CH MG R	390Ω	1/10W	±5%
R313	QRSA08J-102YL	CH MG R	1kΩ	1/10W	±5%
R314	QRSA08J-102YL	CH MG R	1kΩ	1/10W	±5%
R315	QRSA08J-102YL	CH MG R	1kΩ	1/10W	±5%
R316	QRSA08J-102YL	CH MG R	1kΩ	1/10W	±5%
R317	QRSA08J-223YL	CH MG R	22kΩ	1/10W	±5%
R318	QRSA08J-123YL	CH MG R	12kΩ	1/10W	±5%
R319	QRSA08J-122YL	CH MG R	1.2kΩ	1/10W	±5%
R320	QRSA08J-101YL	CH MG R	100Ω	1/10W	±5%
R322	QRSA08J-122YL	CH MG R	1.2kΩ	1/10W	±5%
R325	QRSA08J-102YL	CH MG R	1kΩ	1/10W	±5%
R326	QRSA08J-222YL	CH MG R	2.2kΩ	1/10W	±5%
R327	CRB20R-65-FX-222	MF R	2.2kΩ	0.2W	±1%
CAPACITOR					
C303	NCB21HK-103AY	CH C CAP.	0.01μF	50V	±10%
C304	NCB21HK-103AY	CH C CAP.	0.01μF	50V	±10%
C305	NCB21HK-103AY	CH C CAP.	0.01μF	50V	±10%
C306	NCB21HK-103AY	CH C CAP.	0.01μF	50V	±10%
C307	NCB21HK-103AY	CH C CAP.	0.01μF	50V	±10%
C309	NCB21HK-103AY	CH C CAP.	0.01μF	50V	±10%
C310	NCB21HK-103AY	CH C CAP.	0.01μF	50V	±10%
C311	NCB21HK-103AY	CH C CAP.	0.01μF	50V	±10%
C312	NCB21HK-103AY	CH C CAP.	0.01μF	50V	±10%
C313	QER41CM-226M	E CAP.	22μF	16V	±20%
C314	NCT03CH-101AY	CH C CAP.	100pF	50V	±5%
C315	QER41HM-105M	E CAP.	1μF	50V	±20%
C316	ECUV1E104ZFX	CH C CAP.	0.1μF	25V	+80%, −20%
C317	NCT03CH-101AY	CH C CAP.	100pF	50V	±5%
C318	NCT03CH-101AY	CH C CAP.	100pF	50V	±5%
C319	NCT03CH-101AY	CH C CAP.	100pF	50V	±5%
C320	NCB21HK-103AY	CH C CAP.	0.01μF	50V	±10%
C321	NCB21HK-103AY	CH C CAP.	0.01μF	50V	±10%
C322	NCB21HK-103AY	CH C CAP.	0.01μF	50V	±10%
C323	NCT03CH-180AY	CH C CAP.	18pF	50V	±5%
C324	NCT03CH-180AY	CH C CAP.	18pF	50V	±5%
C325	NCB21HK-103AY	CH C CAP.	0.01μF	50V	±10%
C326	NCB21HK-103AY	CH C CAP.	0.01μF	50V	±10%
C327	NCT03CH-330AY	CH C CAP.	33pF	50V	±5%
C328	NCT03CH-470AY	CH C CAP.	47pF	50V	±5%
C329	NCB21HK-103AY	CH C CAP.	0.01μF	50V	±10%
C330	NCT03CH-180AY	CH C CAP.	18pF	50V	±5%
C331	NCT03CH-331AY	CH C CAP.	330pF	50V	±5%
C332	NCB21HK-103AY	CH C CAP.	0.01μF	50V	±10%
C333	QER41CM-226M	E CAP.	22μF	16V	±20%
C334	NCB21HK-103AY	CH C CAP.	0.01μF	50V	±10%
COIL					
L301	LF5.0S100J	COIL	10μH		±5%
L302	LF5.0S100J	COIL	10μH		±5%
L303	LF5.0S470J	COIL	47μH		±5%
L304	LF5.0S220J	COIL	22μH		±5%
L305	LF5.0S680J	COIL	68μH		±5%
L306	LF5.0S181J	COIL	180μH		±5%
L307	LF5.0S100J	COIL	10μH		±5%
L308	LF5.0S221J	COIL	220μH		±5%
TRANSISTOR					
Q301	2SC2412K(S)	SI. TRANSISTOR			
Q302	2SC2412K(S)	SI. TRANSISTOR			
Q303	2SC2412K(S)	SI. TRANSISTOR			
Q305	2SA1037K(S)	SI. TRANSISTOR			
Q307	DTC144EK(R)	DIGI. TRANSISTOR			
IC					
IC301	LA7410	IC			

EXPLODED VIEW




PARTS OF SENSOR
PARTS OF CHASSIS
PARTS OF FLYWHEEL
PARTS OF LOADING DRIVE
PARTS OF SENSOR
PARTS OF CAM
PARTS OF FRONT DRIVE


PARTS OF REEL DRIVE
PARTS OF HEAD
PARTS OF REVERSE GUIDE
PARTS OF REEL
PARTS OF PINCH ROLLER
PARTS OF BRAKE
PARTS OF CAM
PARTS OF REEL DRIVE
PARTS OF PINCH ROLLER



EXPLODED VIEW PARTS LIST

⚠	Ref. No.	Part No.	Part Name	Description
			---PARTS OF BRAKE-----------------	
	140	80631001	BK SLIDE PLATE	
	141	80631007	BK TRIGGER HOOK	
	142	80631002	BK SLIDE SPRING	
	143	80631014	TRIGGER HOOK SPRING	
	144	806310302	BRAKE ARM L ASSY	
	145	806310303	BRAKE ARM R ASSY	
	146	80631005	BRAKE ARM SPRING	
	147	80631006	BK RELEASE ARM	
	148	80631008	RESET SPRING	
	149	806310305	TS BRAKE ARM ASSY	
	150	80631011	TS ARM SPRING	
	151	80631012	SS BRAKE ARM	
	152	80631013	SS ARM SPRING	
	153	9W0650060	SLIT WASHER	X2
			---PARTS OF CAM------------------	
	160	806311304	CAM L.MOTOR	
	161	9P0230041	SCREW	X2
	162	806311302	L PULLEY METAL ASSY	
	163	806311303	TRG GEAR ARM ASSY	
	164	80631101	LOADING PULLEY	
	165	80631108	LOADING GEAR	
	166	80631109	LOADING BELT	
	167	80631113	P CAM GEAR	
	168	80631111	L CAM GEAR	
			---PARTS OF LOADING DRIVE---------	
	180	806312501	L JOINT PLATE SEMI ASSY	
	181	80631211	L GR PLATE SPRING	
	182	80631212	L GEAR PLATE COLLAR	
	183	80631215	CAM ROLLER	
	184	80631201	M LEVER	
	185	80631202	M SLIDE PLATE	
	186	80631203	BIWAY LEVER	
	187	80631206	L LEVER STOPPER	
	188	80631213	GEAR PLATE STOPPER	
	189	9P0430061	SCREW	
	190	9W0650060	SLIT WASHER	
			---PARTS OF SENSOR----------------	
	200	806313301	BASE PWB ASSY	
	201	806313302	T SENSOR PWB ASSY	
	202	806313311	S SENSOR PWB ASSY	
	203	806313320	DM PWB F ASSY	
	205	80631302	MODE SWITCH	
	206	80631303	REC ARM	
	207	80631304	REC SWITCH ARM	
	208	80631305	REC ARM SPRING	
	209	80631310	PWB JOINER MCN400111	X2
	210	80631317	DM LEAD FPC B	
	212	9P0426051	SCREW	X4
			---PARTS OF FRONT DRIVE-----------	
	220	806315301	RE PULLEY ASSY	
	221	80631501	EJECT PULLEY	
	222	80631504	BREAKER SPRING	
	223	80631505	BREAKER ARM	
	224	80631506	F.LOADING BELT	
	225	9W0240050	SLIT WASHER	
	226	9W0250100	SLIT WASHER	X2
			---PARTS OF FRONT-----------------	
	240	806316301	CASS.HOUSING	
	261	9P0426051	SCREW	X2
			---PARTS OF REVERSE---------------	
	270	806317301	RG ARM ASSEMBLY	
	271	80631706	RG ARM SPRING	
	272	80630804	BT ARM METAL	

⚠	Ref. No.	Part No.	Part Name	Description
			---PARTS OF CYLINDER--------------	
	1	80638260A	CYLINDER ASSY	
	2	60030908	L.DRUM MOTOR	
	3	80590118	UPPER DRUM	
	4	806301301	DRUM EARTH ASSY	
	7	9B0230074	SCREW	X2
	8	9C0620603	SCREW	
	10	9P0426051	SCREW	
	13	9P0430071	SCREW	X3
	15	80590126	DRUM EARTH	
			---PARTS OF CHASSIS---------------	
	20	80590223	DAMPER RUBBER	
	21	806302301	TAPE GUIDE ASSY	
	22	80630215	GUIDE BLOCK	
	23	80630223	CASSETTE GUIDE BOSS	
			---PARTS OF LOADING---------------	
	30	806303301	L BLOCK L ASSY	
	31	806303302	L BLOCK R ASSY	
	32	80630309	ROLLER POST	X2
	33	9C1720233	SCREW	X2
	34	806303305	T LOADING GEAR L ASSY	
	35	806303306	T LOADING GEAR R ASSY	
	36	80630301	LOADING BOSS	X2
	37	9P3026031	SCREW	X2
	38	9W0650110	SLIT WASHER	X2
	39	806303307	CLEANER ASSY	
			---PARTS OF HEAD------------------	
	50	806304301	A/C HEAD	
	57	80630405	X ADJUSTER SPRING	
	58	80630403	AH BASE SPRING	
	59	806304303	FULL ERASE HEAD	
	66	80630411	F POST SPRING	
			---PARTS OF REEL------------------	
	70	806305301	T.REEL DISK	
	71	806305302	S.REEL DISK	
	72	9W0750050	WASHER	X2
			---PARTS OF PINCH ROLLER----------	
	80	806306301	P.ROLLER ARM	
	84	9W0650120	SLIT WASHER	
	85	80630604	P ARM SPRING	
	86	806306302	PRESSURE PLATE ASSY	
	87	9W0650060	SLIT WASHER	
			---PARTS OF FLYWHEEL--------------	
	100	60030354	FLYWHEEL MOTER	
	101	806307301	CM LEAD ASSY	
	102	806307302	C BRAKE ARM ASSY	
	103	80630704	C BRAKE SPR	
	104	80630705	C BRAKE LEVER	
	105	80630706	CB RETURN LEVER	
	106	9P0426071	SCREW	X3
	107	9W0250110	SLIT WASHER	
			---PARTS OF BACKTENSION-----------	
	110	806308301	TENSION ARM	
	111	806308302	B.TENSION BAND	
	112	80630804	BT ARM METAL	
	113	80630805	BT SPRING	
	114	80630810	BT LEVER	
	115	80630812	BT PULL UP PLATE	
	116	9B0326051	SCREW	
	117	9W0250090	SLIT WASHER	
	118	9W0650140	SLIT WASHER	
			---PARTS OF REEL DRIVE------------	
	120	806309307	IDLER GEAR	
	132	806309305	RF GEAR ARM ASSY	
	133	80630922	DRIVE BELT	
	134	9P0220041	SCREW	X2